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ABSTRACT

The ERIC network conversion to an OCR (Optical Character Recognition) mode of data entry was studied to analyze the potential effectiveness of OCR data entry for future EPC/s (Editorial Processing Centers). Study results are also applicable to any other system involving decentralized bibliographic data capture and conversion functions. The report does not recommend such OCR applications unless: (1) all OCR keying can be done on standardized forms; (2) consistent high quality of character images keyed on OCR forms can be maintained; and (3) suitable methods can be devised for coping with special notation (e.g., mathematical, chemical). The report contains performance data on both the OCR keying and OCR scanning functions, and provides a cost/savings analysis. Practical guidelines are provided for the implementation and operation of OCR data entry systems. (Author)

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(Technical Report No. 1296)

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# FINAL REPORT

ON A

# STUDY OF THE EFFECTIVENESS OF OCR

FOR

# DECENTRALIZED DATA CAPTURE AND CONVERSION

(GRANT NO. DSI-76-14760)

BEST COPY AVAILABLE

To The

NATIONAL SCIENCE FOUNDATION
Division of Science Information

FEBRUARY, 1978

BY

ORI, INC.
(FORMERLY Operations Research, Inc.)
INFORMATION SYSTEMS DIVISION
4833 RUGBY AVENUE, SUITE 303
BETHESDA, MARYLAND 20014
TELEPHONE: (301) 656-9723

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- All OCR keying can be done on standardized forms,
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- Suitable methods can be devised for coping with special notation (e.g., mathematical, chemical).

The report contains performance data on both the OCR keying and OCR scanning functions, and provides a cost/savings analysis. Practical guidelines are provided for the implementation and operation of OCR data entry system.

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This study was conducted by ORI, Inc. as the contractor for the ERIC Processing and Reference Facility, and had the full cooperation of the ERIC Clearinghouses who participated by monitoring their intitial OCR keying operations and reporting the required data to the ERIC Facility. A complete list of the ERIC Clearinghouses indicating their operating organizations appears on the following page.

The ORI, Inc. project team was made up of the following members:

PATRICK BROWN, Project Manager

*Computer Systems Staff*

- *Jonathan D. Embry*
- *Cheryl Whitford*
- *Daniel Kautz*
- *Rita Malmleaf*

*Editorial Staff*

- *Orabelle Nuthall*
- *Lee Schreiber*
- *Mary Niebuhr*

and the report preparation has been coordinated by David M. Liston, Jr.

ERIC CLEARINGHOUSES

ERIC Clearinghouse on CAREER EDUCATION
Ohio State University
Center for Vocational Education
1960 Kenny Road
Columbus, Ohio 43210

ERIC Clearinghouse on COUNSELING AND PERSONNEL SERVICES
University of Michigan
2180 School of Education Building
Ann Arbor, Michigan 48109

ERIC Clearinghouse on EARLY CHILDHOOD EDUCATION
University of Illinois
College of Education
805 West Pennsylvania Avenue
Urbana, Illinois 61801

ERIC Clearinghouse on EDUCATIONAL MANAGEMENT
University of Oregon
Eugene, Oregon 97403

ERIC Clearinghouse on HANDICAPPED AND GIFTED CHILDREN
Council for Exceptional Children
1920 Association Drive
Reston, Virginia 22091

ERIC Clearinghouse on HIGHER EDUCATION
George Washington University
One Dupont Circle, Suite 630
Washington, D. C. 20036

ERIC Clearinghouse on INFORMATION RESOURCES
Syracuse University
School of Education
Syracuse, New York 13210

ERIC Clearinghouse for JUNIOR COLLEGES
University of California
96 Powell Library
Los Angeles, California 90024

ERIC Clearinghouse on LANGUAGES AND LINGUISTICS
Center for Applied Linguistics
1611 North Kent Street
Arlington, Virginia 22209

ERIC Clearinghouse on READING AND COMMUNICATIONS SKILLS

URBANA, ILLINOIS LOCATION

National Council of Teachers of English
1111 Kenyon Road
Urbana, Illinois 61801

FALLS CHURCH, VIRGINIA LOCATION

Speech Communication Association
5205 Leesburg Pike
Falls Church, Virginia 22041

ERIC Clearinghouse on RURAL EDUCATION AND SMALL SCHOOLS
New Mexico State University
Box 3AP
Las Cruces, New Mexico 88003

ERIC Clearinghouse of SCIENCE, MATHEMATICS, AND ENVIRONMENTAL EDUCATION
Ohio State University
1200 Chambers Road, Third Floor
Columbus, Ohio 43212

ERIC Clearinghouse for SOCIAL STUDIES/ SOCIAL SCIENCE EDUCATION
855 Broadway
Boulder, Colorado 80302

ERIC Clearinghouse on TEACHER EDUCATION
American Association of Colleges for Teacher Education
One Dupont Circle, N.W. Suite 616
Washington, D. C. 20036

ERIC Clearinghouse on TESTS, MEASUREMENT, AND EVALUATION
Educational Testing Service
Princeton, New Jersey 08540

ERIC Clearinghouse on URBAN EDUCATION
Box 40
Teachers College, Columbia University
525 W. 120th Street
New York, New York 10027

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# I. INTRODUCTION

## A. BACKGROUND

At the time this Grant (Grant No. DSI 76-14760) was made to ORI, Inc., the National Science Foundation, Division of Science Information, NSF/DSI (formerly the Office of Science Information Service, OSIS) was actively investigating the concept of the Editorial Processing Center (EPC). The EPC concept comprised an integrated, centralized, and automated system, acting as a service bureau "to perform automatically all of the functions associated with primary publishing that lend themselves to processing by computers and other sophisticated modern equipment."

Two circumstances in particular that prevailed at that time were instrumental in justifying the study herein reported upon:

- The original analysis of the feasibility of the EPC concept by Westat Inc.[1] had envisioned the application of optical character recognition (OCR) for data capture and conversion to machine readable form.

- The ERIC Processing and Reference Facility (ERIC Facility), operated by ORI, Inc., was about to embark on a new program to convert the ERIC Network data entry system to OCR.

The striking similarities between the proposed EPC and ERIC application of OCR spawned the idea of using the ERIC/OCR implementation phase as a test bed for assessing the applicability of OCR data entry methodology to the EPC concept. These similarities between the two proposed applications were that both systems were to involve:

- Decentralized initial keying of data for OCR scanning.
- Centralized rekeying of corrections/revisions for OCR scanning.
- Centralized OCR data conversion.
- Centralized data base construction.
- Generation from the data base of:
  - (a) Page proofs for the publication process.
  - (b) Directories, indexes, and others similar products.
  - (c) Magnetic tapes for information retrieval.
- Processing of a high volume of characters per unit time (about two million per month for ERIC).
- Operations paced to meet a strict monthly publication schedule with a rather short turnaround time.

On the basis of this parallel nature of the two proposed OCR applications, the grant was made to ORI, Inc. to conduct the study which is the

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(1) Editorial Processing Centers - A Study to Determine Economic and Technical Feasibility, Westat, Incorporated, July 1974, PS-234959.

subject of this report.

B. GOALS AND OBJECTIVES

The study has been conducted under the NSF/DSI "Access Improvement Program" and relates explicitly to the first goal of that Program in the field of publication which is:

> "To capture significant new literature in computer-sensible form at its source".

More specifically, the study relates to the EPC concept developed within this goal, and even more specifically to the problem within the EPC of data capture and conversion to machine-sensible form. Situated in such a framework the study has the specific objectives to:

- Test and evaluate the technical, financial, and socio/political viability of OCR as a technique for data capture and conversion in an Editorial Processing Center.

- To systematically report any intelligence gained from the ERIC/OCR operation concerning hardware, software, personnel, training and other procedures that will enhance orderly and efficient implementation of OCR in future EPC's, or in other similar applications.

C. GENERALITY OF RESULTS

This has been a study of an OCR application using one particular scanner, one particular OCR type font, and one particular type of keying device. Of course, for each of these system elements there are alternative pieces of equipment that could be substituted. It is natural to question to what extent our results can be generalized across all the types of equipment available. Certain results such as error rates are quite specifically related to the particular equipment tested. On the other hand, we feel the general types of problems encountered the nature of their solutions can be considered to be quite typical of all OCR applications. The reader of this report is likely to have little difficulty deducing which of the results are generalizable and which are not. However, to assist in making this distinction, we have also included some specific clarifications of this nature at various points throughout the report.

One particularly unique aspect of this OCR application is the general nature of the ERIC data base and the textual data it contains. The ERIC data base, in dealing with the field of education, contains virtually no special notation of the types prevalent in some of the harder sciences such as mathematics, chemistry, and physics. This can be seen from the ERIC character set illustrated in this report. Thus, the general level of success of the ERIC/OCR application may not be generalizable to Editorial Processing Centers (or other applications) that involve extensive special notation containing characters that the scanner may not be able to read. Extensive human intervention in the data entry process might be required in such cases.

## II. THE NATURE OF ERIC AND ITS DATA ENTRY SYSTEM

### A. AN OVERVIEW OF ERIC

ERIC is the acronym for the Educational Resources Information Center. The ERIC system was originally conceived in the U.S. Office of Education in the mid-1960's to bring under control and provide ready access to the nation's educational literature.

Because of the decentralized nature of American education, education's many specializations, and the existence of numerous professional organizations, ERIC's designers opted for a network of organizations rather than a single monolithic information center located in Washington. ERIC was conceived, therefore, as a network of "clearinghouses," located across the country in "host" organizations that were already naturally strong in the field of education in which they would operate.

Figure 1 provides a diagrammatic view of the total network, its components, the functions of each component, and the general flow of materials through the network. Not completely clear in Figure 1 is the fact that there are sixteen separate Clearinghouses. Each clearinghouse gathers and processes documents in a specifically defined segment of the field of education. The remainder of the functions are each centralized and performed by one of the following organizations:

- The ERIC Processing and Reference Facility (The Facility --- operated by ORI, Inc.)
- The Government Printing Office (GPO)
- The ERIC Document Reproduction Service (EDRS --- operated by Computer Microfilm International Corporation)
- The Current Index to Journals in Education (CIJE Publication --- operated by Macmillan Publishing Co., Inc.)

all as indicated in the listings in Figure 1.

The data capture and conversion functions are shared between the Clearinghouses and the Facility. The Clearinghouses generate the system input data as a product of their document analysis functions, and they perform the initial keying. The Facility edits the data received from all the clearinghouses, converts it to machine-sensible form, constructs the ERIC data base, and prepares the ERIC abstract journal Resources in Education.

### B. THE ERIC DATA ENTRY SYSTEM PRIOR TO OCR

The very first concept of a data entry system for ERIC was to install Flexowriters, one at each of the Clearinghouses, so that the initial keying perforemd there would be in computer-sensible form. This concept had the advantage of avoiding any duplicate-keying functions.

In those early days of the ERIC operation, when automation of textual information was in its infancy and data input equipment for upper/lower case textual data was limited to rather difficult-to-operate punched paper tape devices such as the Flexowriter, it was found not feasible for

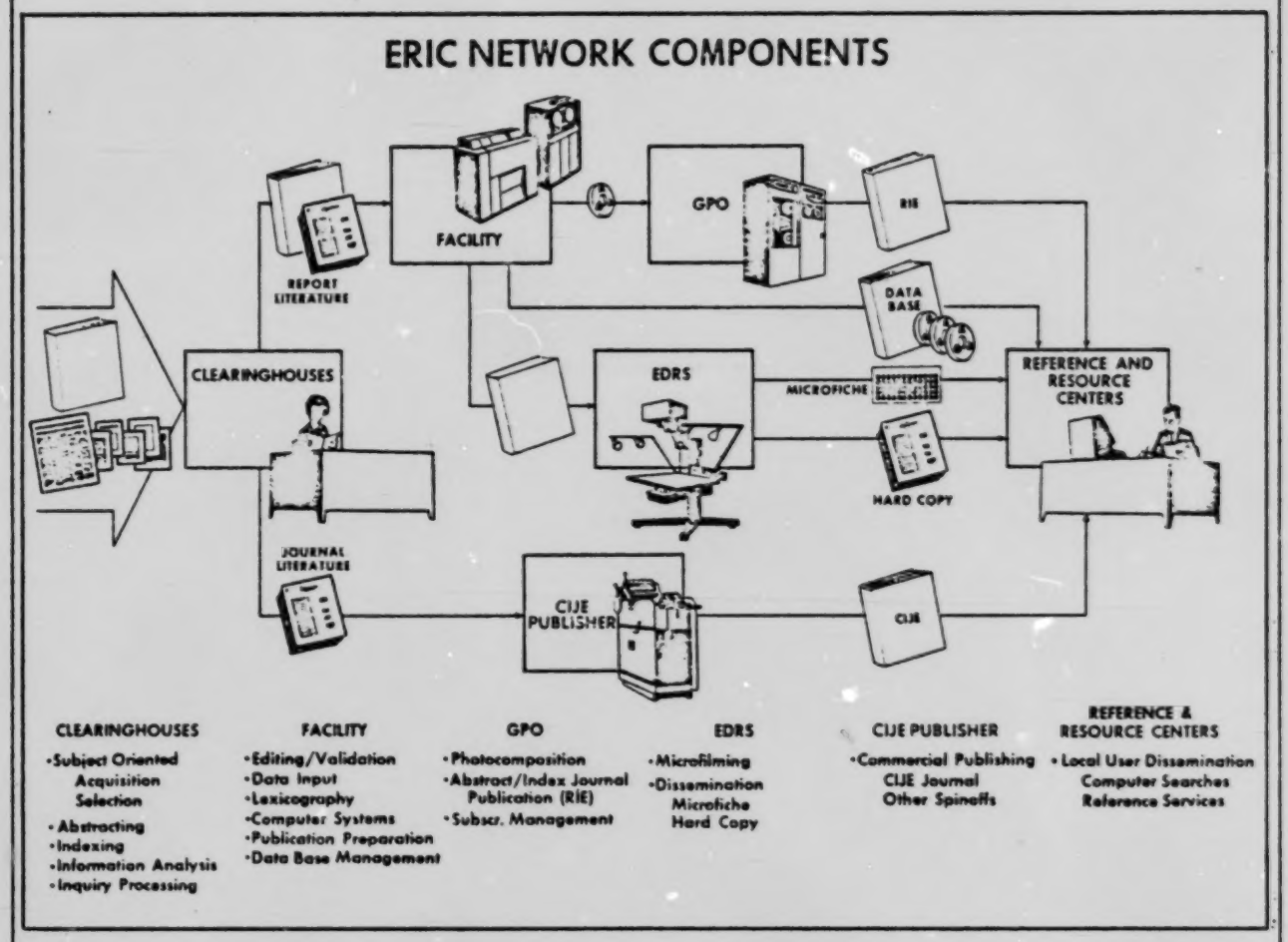



FIGURE 1. AN ERIC NETWORK OVERVIEW

the individual Clearinghouses to provide consistently clean computer-processable input. Problems were encountered not only with the consistent production of clean (error free) paper tape, but also with the protection of the paper tapes during shipment against moisture and physical damage. The Flexowriters were eventually recalled from the Clearinghouses and installed at the ERIC Facility for a centralized keying operation. Thus was born the "double keying" of the data in the course of which each Clearinghouse produced a clean typewritten copy of each document resume, and the ERIC Facility, after editing, rekeyed all of the document resumes to produce the computer-sensible records.

This mode of data entry persisted until the beginning of the 1976 Facility contract year, at which time it was proposed and accepted that the data entry system be revised to employ OCR. The primary motivation for the conversion was to eliminate the double-keying by having the Clearinghouses perform the initial keying on OCR forms that could be scanned and converted to machine-sensible form by the Facility with no further keying operations.

## C. CONVERSION OF THE ERIC DATA ENTRY SYSTEM TO OCR

The conversion of the ERIC data entry system to OCR was accomplished in three basic phases:

- OCR keying done centrally and experimentally by the ERIC Facility. This phase facilitated the debugging of the keying and scanning operations without interference with the existing data entry functions.

- Experimental OCR keying operations assumed by the four local Washington D.C. Clearinghouses in parallel with normal keying operations. This phase permitted the development of training procedures and the OCR Keying Manual prior to the initiation of OCR keying by the remaining twelve Clearinghouses.

- Operational OCR keying by all the Clearinghouses, thereby eliminating the double keying requirements.

### 1. Central/Experimental OCR Keying and Scanning by the ERIC Facility

The conversion started with the acquisition by the ERIC Facility of three IBM Selectric II typewriters having the following specifications:

- 5 lines per inch carriage rachet
- 13 inch, 10 pitch carriage
- OCR one-time carbon ribbon cassettes
- ANSI OCR A typing element (Selectric Ball) IBM Printing and Publishing 1, Order #1167170. (See Figure 2 for an example of an OCR input form typed in the OCR font). This font is also the Federal Information Processing Standard (FIPS) for OCR input.

ERIC Report Resume OCR Form

Date: 5-5-77 | Prepared By: M.J.S | Typewriter ID No.: | ☒ NEW RESUME ☐ CORRECTIONS ONLY | PAGE 1 OF 1

Keyword | ALIGN FIRST CHARACTER IN BOX

CH
PA
PDAT
LEVEL
PAGE
AUTH
TITLE
INST
SPON
CONT
GR
BN
REPNO
PUBTYPE
NOTE
AVAIL
JNL
DESC
IDEN
ABST

CH::JC770165
PDAT::Jan77
LEVEL::1
AUTH::Zane, Laurence F. H.; Rantala, John W.
TITLE::A Report on the Establishment of Regional Colleges in the Socialist Republic of the Union of Burma.
INST::=Ministry of Education, Rangoon (Burma).
PUBTYPE::R

DESC::=College Planning; =College Role; Foreign Countries; =Technical Institutes; Post Secondary Education; =Technical Education; Area Vocational Schools; Regional Planning
IDEN::=Burma

ABST::This document contains more than 30 specific recommendations made by two American specialists regarding the efforts of the Socialist Republic of Burma as it seeks to establish approximately 20 production-oriented Regional Colleges throughout the 14 States and Divisions of Burma. The proposed colleges, patterned after the American community college, are designed to produce middle rung technicians, to train students both theoretically and practically, to engage students in production while studying in their various disciplines, and to provide an opportunity for those of high intellectual caliber to pursue a further university degree. The specific recommendations included in this report are comprehensive in nature and cover such areas as staffing, college/community interface, long-range planning, academic policy, open admission, public relations, vocational counseling, other student personnel services, alternative modes of utilization of instructional personnel, development of instructional materials, publication of college catalogs, institutional role, student activities, staff development, community services, and administration. A brief bibliography is appended. (JDS)

MANDATORY DATA FIELDS ARE IN BOLD TYPE

Substitution Characters

| ERIC | OCR |
|---|---|
| [ | (( |
| ] | )) |
| ! | ** |
| > | .gt. |
| < | .lt. |
| ( | ( |
| ) | ) |
| # | # |

DO NOT TYPE BELOW THIS LINE

EPP-100 (9/76)

FIGURE 2. EXAMPLE OCR INPUT FORM

(FULL SIZE FORM IS 11" X 11")

The Facility's keyers began experimental (duplicate) keying of document resumes submitted by the Clearinghouses. Training was a minor effort since the keyers were proficient typists and thoroughly acquainted with the input data to be keyed. The major training requirements involved the use of special characters, control characters, and correction procedures (more about these later in this report).

The OCR Scanner (a Compuscan Model 170 OCR Page Reader) required some testing and modifications. The scanner operates through a minicomputer to convert data on the typed OCR Forms to magnetic tape records. The minicomputer software provides rather powerful capability for special character translation, substitution,and deletion. The particular scanner used had been set up to process Perry OCR type font and had never been operated on the OCR-A type font selected for the ERIC operation. This required some testing and adjustment of the scanner. The problems encountered included:

- The vertical bars in the OCR-A font extended outside the normal character boundaries of the Perry font,causing the scanner occasionally to pick up a character from the wrong line of text.

- The hyphen and the underscore characters occurred at the same vertical position, and, thus, could not be distinguished by the scanner.

- The OCR-A character set did not include all the ERIC characters, so special substitutions had to be developed. These can be seen in Figure 3, the ERIC/OCR Character Set.

The significance of the image quality of the characters on the typed OCR forms soon became obvious. Preliminary tests of resumes scanned through the OCR system indicated a very high (4% to 6%) error rate introduced by the scanner identifying semicolons as commas. Additionally, there was a tendency to replace a "t" (lower case) with a "c" (lower case). By adjusting ("fine tuning") the typewriter and changing from the IBM OCR ribbon to an IBM film ribbon, the maximum semicolon error rate of 6% (320 out of 5,184 characters keyed) was reduced to 0.13% (4 out of 3,028 characters).

After spending considerable time with a special hardware consultant from New Jersey adjusting the scanner, the error rate was substantially reduced. One of the pages keyed before the typewriter was adjusted originally showed an error rate of 4%. Scanning the same sheet after an initial adjustment of the scanner produced 8 errors out of 2,197 characters for an error rate of 0.36%. After further adjustment of the typewriter, ten (10) pages containing exclusively semicolons (19,631 characters) had only one character misread by the scanner. Visual examination of that character showed that it was in fact somewhat deficient.

1. ALPHABETIC (52): A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z

2. NUMERIC (10): 1 2 3 4 5 6 7 8 9 0

3. SPECIAL CHARACTERS (25):

EXACT EQUIVALENTS:

| | ERIC | OCR | | ERIC | OCR |
|---|---|---|---|---|---|
| AMPERSAND | & | & | HYPHEN | - | - |
| APOSTROPHE | ' | ' | PERCENT SIGN | % | % |
| ASTERISK | * | * | PERIOD | . | . |
| BLANK, SPACE | | | PLUS SIGN | + | + |
| COLON | : | : | QUESTION MARK | ? | ? |
| COMMA | , | , | QUOTATION MARK | " | " |
| DASH | -- | -- | SEMICOLON | ; | ; |
| DOLLAR SIGN | $ | $ | SLASH, VIRGULE | / | / |
| EQUAL SIGN | = | = | | | |

SPECIAL SUBSTITUTIONS:

| | ERIC | OCR | | ERIC | OCR |
|---|---|---|---|---|---|
| BRACKET (LEFT) | [ | {[ | LESS THAN | < | .lt. |
| BRACKET (RIGHT) | ] | }] | PARENTHESIS (LEFT) | ( | { |
| EXCLAMATION POINT | ! | ?? | PARENTHESIS (RIGHT) | ) | } |
| GREATER THAN | > | .gt. | POUND SIGN | # | ⌗ |

4. OCR CONTROL CHARACTERS (3):

| | | |
|---|---|---|
| DOUBLE COLON | :: | Used only between Field Keyword and Field text. |
| "BLOB" | ■ | Overstrike on character(s) to be deleted. |
| "HOOK" | ⌐ | Deletes preceding character (one), word (two), or line (three). |

5. NOT PRESENTLY USED:

| | |
|---|---|
| "FORK" | Y |
| VERTICAL BAR | \| |
| UNDERLINE | — |

FIGURE 3. ERIC/OCR CHARACTER SET

Similar results were found with the problem of the "t's" being recognized as "c's". Seven pages, containing 20,951 "t's" produced 216 "c's" in error (1.03%) before the scanner was adjusted. After the scanner adjustment, no errors were experienced in processing three pages containing 843 t's.

The conclusions were that careful adjustment of the typewriter and use of the proper type of ribbon are very critical factors in controlling the image quality and that image quality must be maintained at a very high level to assure satisfactory error rates on the scanner. Poor quality images are discernible via careful visual examination of the typed forms. Furthermore, proper adjustment of the scanner itself is also critical, even when high image quality is maintained.

The sensitivity of the scanner to poor registration of characters on the OCR Forms was also checked. A series of pages were keyed and scanned to check the capability of processing skewed lines. Pages with every line skewed up or down one entire space (0.2 inch) caused the machine to halt after about five lines. Pages with every line skewed up or down one half space (0.1 inch) were processed with no problems, every line being properly scanned. Pages with some straight lines and some skewed lines were also scanned properly.

Thus, it was concluded that character and line registration are not critical factors. The Compuscan 170 tracks each line individually, and, as a result is able to cope very well with skewed lines and with characters that are out of line with each other.

The mainframe computer system required only very minor modification since the tape from the scanner processed by the mainframe system was already converted to the proper character set. As much as possible, all the special character substitutions and translations were set up to be performed by the scanner's minicomputer rather than by the mainframe system.

The only significant problem experienced with the scanner had to do with the tape drive. The scanner system occasionally produced tapes that could not be read by the mainframe system because of input/output errors, data checks, etc. These types of problems are not uncommon in minicomputer applications, but are not related to OCR processes per se.

Tests conducted regarding various extraneous marks on OCR pages showed that the scanner is apparently sensitive mainly to carbon based inks and marks. Pencils (blue and black), ball points, and some markers are picked up (i.e. 'seen' by the scanner) and disrupt accurate character recognition. Colored pencils and most felt tip pens were completely ignored - even if the typed character were completely obliterated by the extraneous markings. This aspect of scanner performance is probably a function of the specific light source and light detector used in the scanner.

The ERIC/OCR application required the design of a special 11" x 11" typing form,an example of which can be seen in Figure 2. The scanner locates the initial character to be scanned at a fixed location relative to the upper left hand corner of the form. A box is provided on the form so that the first typed character can be located at this fixed location. It is relatively important that this box be consistently located from one form to another to avoid scanning difficulties such as missing the first line of text. Accurate printing of the forms is necessary to assure this consistency. Extending the top and left border lines to bleed off the edge of the form makes it possible to scan the top and left edges of a stack of forms to see whether the registration of the printing is consistent throughout the entire stack of forms.

2. OCR Keying at the First Four Clearinghouses

We chose to work first with the four Clearinghouses in the Washington D.C. area to simplify the liaison required for working out training procedures and identifying and solving problems associated with decentralized keying.

Initially the ERIC Facility staff conducted a training session for keyers/typists, editors/proofreaders, and supervisors/managers at each of the four Clearinghouses. The trainees generally were very receptive, especially considering that the conversion to OCR was a considerable imposition on them, with the benefits (such as lower cost, and better schedules) accruing to the total system and only indirectly to the Clearinghouses. The keyers and editors readily learned the concepts of OCR keying and follow-on correction in a two to four hour training session.

Each Clearinghouse submitted duplicate input (regular and OCR) for a period of several weeks while they settled into the OCR routine. This allowed assurance that the new OCR input would work prior to discontinuing the old mode of input.

In parallel with the conduct of the initial training sessions, the ERIC Facility staff developed and assembled the OCR Keying Manual (included as Appendix A to this report) incorporating the results of the experiences of the Facility and the four local Clearinghouses in adopting OCR keying procedures. The local Clearinghouses reviewed and commented on the draft Manual before it was finalized for use by the remaining Clearinghouses.

3. OCR Keying at the Remaining Twelve Clearinghouses

The initiation of OCR keying at the twelve non-local Clearinghouses was accomplished a few Clearinghouses at a time so that the Facility staff could devote sufficient attention to each one during the early transition period. The conversion of each Clearinghouse involved the following steps:

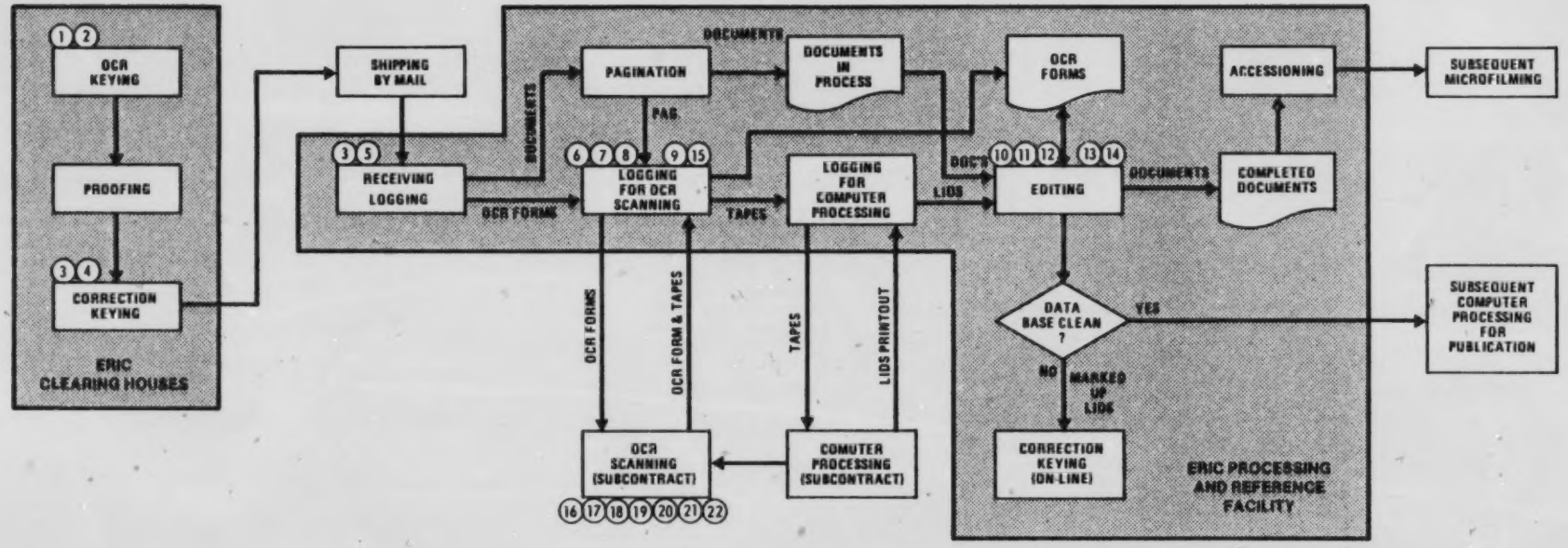
- The first step was to acquire a suitable typewriter and the correct type ball for OCR-A font. Because of delays

in the delivery of new typewriters, many of the Clearinghouses used ordinary 10-pitch Selectric typewriters that were already available during the training and initial keying periods. Normal typewriters are usually set for 6 lines per inch (instead of the required 5 lines per inch to provide more white space between lines). It was found that OCR forms typed double space (or 3 lines per inch) could be satisfactorily scanned, but that each document resume then usually required two pages because of the more open spacing.

- The keying manual was forwarded to each Clearinghouse for their review prior to the initial training session.
- An on-site training session of 2 to 4 hours duration was held at each Clearinghouse for typists, editors, and managers.
- With the ERIC Facility staff still on-site, typists performed experimental keying on actual input document resumes and the editors reviewed them.
- The ERIC Facility staff (still on-site) reviewed the keying, the editing, the marking of corrections, and the correction keying processes, providing on-the-spot commentary, advice,and critiques.
- For several weeks thereafter each Clearinghouse submitted to the ERIC Facility a number of test OCR document resumes along with and in parallel to the normal input forms.
- The test document resumes were scanned, computer processed,and reviewed by both the computer staff and the editorial staff of the ERIC Facility. Feedback on the test results was accomplished via telephone to avoid delays.
- When the tests for a Clearinghouse proved acceptable, it was instructed to submit all input in OCR form and to discontinue the previous type of input preparation from that point on.
- The ERIC Facility computer and editorial staff maintained a very thorough surveillance of the first few full OCR input shipments to assure that the transition to OCR had been successfully accomplished.

4. The Completed OCR Data Entry System

Figure 4 displays the process flow diagram of the completed ERIC/OCR Data Entry System. It indicates the functions performed by the Clearinghouses, by the ERIC Facility, and by subcontractors. Also indicated on flow diagram are the points at which quantitative data on the system have been collected. This quantitative data is presented and analysed in the next section of this report.




○ INDICATES DATA ELEMENTS BEING GATHERED AT VARIOUS POINTS IN THE SYSTEM

**FIGURE 4**
**PROCESS FLOW DIAGRAM OF ERIC OCR DATA ENTRY SYSTEM**

## III. DATA COLLECTION

### A. TYPES OF DATA COLLECTED

Quantifiable data elements were monitored during the start up period and transition to steady-state operation of the OCR data entry system. These data elements are:

1. Number of Document Resumes Keyed
2. Number of Document Resumes Keyed per Hour
3. Number of Document Resumes Corrected by Clearinghouses
4. Number of Document Resumes Corrected by Clearinghouses per Hour
5. Number of Correction Lines Keyed by Clearinghouse
6. Number of Character Erasures (Blobs) (2)
7. Number of Character Deletions (Hooks) (2)
8. Number of Word Deletions (Double Hooks) (2)
9. Number of Line Deletions (Triple Hooks) (2)
10. Number of Content Errors Found on OCR Forms by Editors
11. Number of Keying Errors Found on OCR Forms by Editors
12. Number of Scanning Errors Found on OCR Forms by Editors
13. Number of Document Resumes Corrected by ERIC Facility
14. Number of Correction Lines Keyed by the ERIC Facility
15. Number of Document Resumes Scanned for OCR
16. Number of Sheets(of OCR Forms) Scanned for OCR
17. Number of Sheets(of OCR Forms) Scanned per Hour
18. Number of Characters Scanned for OCR
19. Number of Characters Scanned per Hour
20. Numbers of Lines of Text Scanned for OCR
21. Number of Lines of Text Scanned per Hour
22. Number of Scanning Hours

The points in the OCR data entry process flow chart (Figure 2) at which these data were monitored and collected are indicated in Figure 2 by encircled numbers that correspond to the above numbers.

Data elements (1), (2), (3), and (4) were monitored by the Clearinghouses and the data were recorded on Form A (See Figure 5).

Data elements (1), (3), (5), (6), (7), (8), (9), (10), (11), (12), (13) and (14) were monitored by the ERIC Facility and the data were recorded on Form 13 (See Figure 6).

Data elements (15), (16), (17), (18), (19), (20), (21) and (22) were monitored by the ERIC Facility and the OCR Scanning subcontractor and the data were recorded on Form C (See Figure 7).

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(2) See Figure 3, ERIC/OCR character set, for examples of blobs and hooks used to effect corrections on the OCR forms.

ERIC PROCESSING & REFERENCE FACILITY - NSF OCR
IMPLEMENTATION STUDY

OCR KEYING LOG

Clearinghouse_____ Issue_____ Week_____

| DATE | START TIME (2) | STOP TIME (4) | TYPEWRITER ID. | TYPIST | NEW RESUMES TYPED (1) | RESUMES CORRECTED (3) | COMMENTS, PROBLEMS |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
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FIGURE 5
DATA COLLECTION
FORM A

OCR RESUME TRACKING FORM

Clearinghouse: _____ Number of Resumes: _____

Issue: _____ Number of Correction Pages: _____

Week: _____ Total Number Pages: _____

| OPERATION | DATE | COMMENTS |
|---|---|---|
| 1. Receiving/Logging In<br># Resumes Corrected ___<br># Correction Lines ___ | 3<br>5 | |
| 2. Pagination | | |
| 3. Key Pagination | | |
| 4. Scanning<br># of character erasures (▯) ___<br># of character deletions (ʃ) ___<br># of word deletions (ʃʃ) ___<br># of line deletions (ʃʃʃ) ___ | 6<br>7<br>8<br>9 | |
| 5. LIDS | | |
| 6. Editing<br># of content errors ___<br># of keying errors ___<br># of Scanner errors ___ | 10<br>11<br>12 | |
| 7. Source Codes | | |
| 8. Identifier Check | | |
| 9. Key Corrections<br># Resumes corrected ___<br># correction lines ___ | 13<br>14 | |

FIGURE 6
DATA COLLECTION
FORM B

ERIC PROCESSING AND REFERENCE FACILITY
4833 RUGBY AVENUE, SUITE 303, BETHESDA, MARYLAND 20014 > (301) 656-9723
*OPERATED FOR* THE NATIONAL INSTITUTE OF EDUCATION *by* Operations Research, Inc., Information Systems Division

OPTICAL CHARACTER RECOGNITION - SCANNER LOG SHEET

Date Transmitted to Automatic Composition _____

Date Due Back to ORI _____ Date Returned to ORI _____

Issue _____ Batch _____

REPORT RESUMES - INITIAL INPUT

CE _____ JC _____

CG _____ PS _____

CS _____ RC _____

EA _____ SE _____

EC _____ SO _____

FL _____ SP _____

HE _____ TM _____

IR _____ UD _____

Total Resumes (15) _____ Other _____

CORRECTIONS _____

THESAURUS DJF'S _____ _____

SOURCE CODES _____ _____

Special Instructions: _____ _____

_____ _____

FIGURE 7
DATA COLLECTION
FORM C

Output Tape _____ Sheets Transmitted _____

Sheets Scanned (16) _____ Start Time (17) _____

Characters Output (18) _____ Stop Time (19) (21) _____

Lines Output (20) _____ Elapsed Time (22) _____

Sent By: _____

B. NUMERICAL DATA COLLECTED

Appendix B consists of the data sheets summarizing all of the data collected. The data elements are labeled VAR01 through VAR22. The data were collected on a weekly basis and are so presented in Appendix B starting with the week of (week starting) July 26, 1976 and ending with the week of March 21, 1977. This is the period during which the Clearinghouses initiated and completed their conversions to OCR keying.

The first sheet of Appendix B presents a summary of aggregated data representing data entry statistics for the entire ERIC network. Data elements (1) through (14) have been aggregated across the 16 Clearinghouses. Each following page of Appendix B presents these 14 data elements for one of the individual Clearinghouses. Data elements (15) through (22), having to do with the OCR scanning process, apply only to the total network since the scanning is done centrally by the ERIC Facility scanning subcontractor, and, thus, are not represented on the data sheets for individual Clearinghouses.

The data sheets for the individual Clearinghouses require a few points of clarification:

- The Clearinghouses are identified by a series of codes, AA through PP. These codes have been applied to honor our original agreement that the Clearinghouses would remain anonymous in our report. The ERIC Facility will be glad to identify for any Clearinghouse (upon request) which data set applies to that Clearinghouse. Otherwise, complete anonymity will be maintained.

- The months on the data sheets are itemized by numbers, which are interpreted as follows:

  Month 1 = July 1976
  Month 2 = August 1976
  Month 3 = September 1976
  Month 4 = October 1976
  Month 5 = November 1976
  Month 6 = December 1976
  Month 7 = January 1977
  Month 8 = February 1977
  Month 9 = March 1977

  Each week is also represented by a number which represents the calendar date of the Monday starting that week.

- In the data sets proper, a missing piece of data is represented by a string of "8's" (e.g. "88888.0"). A zero data point is represented by the typical "0.0".

C. NORMALIZED DATA

Certain comparisons among the Clearinghouses become much more meaningful if the data are normalized to represent units per document resume processed. This is true because there is a wide variation among the Clearinghouses in the volume of documents processed per unit of time.

For this reason, we have calculated the data appearing in Appendix C. Data elements (5) through (14) (which are labeled NOR05 through NOR14) have been normalized by dividing each data element VAR05 through VAR14 (see Appendix B) by VAR01 (also in Appendix B).

The two data elements RHR (hours keying resumes), and CHR (hours keying corrections) have been used only to calculate the aggregated data elements VAR02 and VAR04 in Appendix B.

Other than as noted above, the notations applied in Appendix C are completely parallel to those in Appendix B.

## IV. DATA ANALYSIS

### A. ANALYSIS OF KEYING DATA

The most useful and interesting data elements pertaining to the OCR keying operation (the normalized data elements) can be summarized as follows for the entire ERIC network (aggregated over all 16 Clearinghouses):

| DATA ELEMENT | NAME | AVERAGE VALUE | STANDARD DEVIATION |
|---|---|---|---|
| VAR02 | Number of Document Resumes Keyed per Hour | 4.67 | 2.38 |
| VAR04 | Number of Document Resumes Corrected by CH's per Hour | 24.44 | 20.38 |
| NOR05 | Number of Correction Lines Keyed by CH's per Resume | 2.28 | 1.59 |
| NOR06 | Number of Character Erasures (Blobs) Used per Resume | 11.83 | 9.02 |
| NOR07 | Number of Character Deletions (Hooks) Used per Resume | 0.18 | 0.61 |
| NOR08 | Number of Word Deletions (Double Hooks) Used per Resume | 0.50 | 0.55 |
| NOR09 | Number of Line Deletions (Triple Hooks) Used per Resume | 0.27 | 0.25 |
| NOR10 | Number of Content Errors per Resume | 0.88 | 0.59 |
| NOR11 | Number of Keying Errors per Resume | 0.30 | 0.32 |
| NOR12 | Number of Scanning Errors per Resume | 0.05 | 0.14 |
| NOR14 | Number of Correction Lines Keyed by the ERIC Facility per Resume | 2.41 | 1.69 |

The raw data (Appendix B) and the normalized raw data (Appendic C) were processed through the Statistical Package for the Social Sciences (the SPSS software) to generate:

- Means (Average values)
- Standard Deviations
- Pierson Correlations

which are displayed as Appendix D to this report. The first page of Appendix D presents these calculations for the data aggregated across all 16 Clearinghouses (and is the source of the averages and standard deviation tabulated above). Each following page of Appendix A presents the same calculations for one of the 16 Clearinghouses. In each case the Pierson Correlations were run for VAR02 and VAR04 against against NOR05 through NOR14.

An examination of the means (averages), standard deviations, and correlations displayed in Appendix D brings to light some interesting observations:

1. The standard deviations for all the variables is large compared to the means, indicating a wide variation in keying rates, use of control characters, keying errors, etc.

2. The data aggregated over the 16 Clearinghouses shows that the Clearinghouses keyed an average of 2.28 correction lines per resume (NOR05), and the ERIC Facility keyed an average of 2.41 correction lines per resumt (NOR14). It appears that the line by line correction keying load is split roughly 50-50 between the decentralized sources and the central editing organization.

3. Of the four methods of correction keying:

   - Blobs - NOR6 - 11.83 per resume (average)
   - Hooks - NOR7 - 0.18 per resume (average)
   - Double Hooks - NOR8 - 0.50 per resume (average)
   - Triple Hooks - NOR09 - 0.27 per resume (average),

   the use of the blob would appear to be the preference of the average typist by a very large margin.

4. On the average, the types of errors found in the resumes by the ERIC Facility editors were:

   - Content errors - NOR10 - 0.88 per resume
   - Keying errors - NOR11 - 0.30 per resume
   - Scanning errors - NOR12 - 0.05 per resume.

   The low scanning error rate is very impressive. ORI feels, however, that the low rate is a direct result of maintaining very tight control over proper scanner adjustment and over the image quality of the typed OCR fourms. Loose control would undoubtedly lead to a much higher scanning error rate.

5. About 64% (VAR13 divided by VAR01) of all the resumes keyed required some type of correction by the ERIC Facility.

6. An inherent question that prevailed during the study was whether there was any significant correlation between keying speed (VAR02) or correction speed (VAR04) and the quality of the keying performance in terms of character deletions, content errors, keying errors, etc. Several observations are pertinent here:

   - The correlations for the entire system (page 1 of Appendix D) show essentially no correlations (coefficients less than 0.1) between the keying rate (VAR02) and:

     - NOR07 Number of character deletions per resume
     - NOR08 Number of word deletions per resume

   - Similarly there were essentially no correlations between the correction keying rate (VAR04) and:

     - NOR07 Number of character deletions per resume
     - NOR08 Number of word deletions per resume
     - NOR11 Number of keying errors per resume found by the editors
     - NOR12 Number of scanning errors per resume

   - There were only moderate positive correlations (coefficients greater than 0.45) between the keying rate (VAR02) and:

     - NOR06 Number of character erasures per resume.
     - NOR13 Number of resumes corrected by the ERIC Facility

7. Data for several individual Clearinghouses also offer some observations relevant the the question of speed vs. quality:

   - Clearinghouse EE was <u>above</u> the system averages for keying rate (VAR02) and correction rate (VAR04), but <u>below</u> the system averages for:

     - NOR06 Number of character erasures per resume
     - NOR07 Number of character deletions per resume
     - NOR11 Number of keying error found by the editors per resume

   - Clearinghouse JJ was below the system average for all the normalized variables (NOR05 through NOR14) indicating a consistently high quality of performance. Unfortunately we do not have any keying rates for this Clearinghouse against which to compare.

- Clearinghouse AA showed a rather strong position correlation (0.7682 coefficient) between the keying rate (VAR02) and the number of resumes corrected by the ERIC Facility.

- Clearinghouse DD showed strong positive correlations (greater than 0.7) between the keying rate (VAR02) and:

  - NOR06 Number of character erasures per resume
  - NOR08 Number of word deletions per resume
  - NOR13 Number of resumes corrected by the ERIC Facility
  - NOR14 Number of correction lines keyed by the ERIC Facility

- Clearinghouse EE showed a strong negative correlation (-0.7099) between the keying rate (VAR02) and the number of keying errors per resume (NOR11)---the slower the keying rate, the greater the number of errors!

- Clearinghouse MM showed positive correlations (over 0.7) between both the keying rate (VAR02) and the correction rate (VAR04) and the number of correction lines keyed per resume (NOR05).

8. The variety and the diversity of the observations in items 6 and 7 (above) suggest that the relationship between keying rate and keying quality is probably a very individualized phenomenon, varying considerably from one keyer to another.

B. ANALYSIS OF SCANNING DATA

This discussion will deal with scanning data collected from the week starting 27 December 1976 to the week starting 21 March 1977. Page 1 of Appendix B shows that this is the period during which we have complete scanning data which can be summarized as follows (aggregated over the entire 13 week period):

| DATA ELEMENT | NAME | VALUE |
|---|---|---|
| VAR15 | Number of Document Resumes Scanned | 3,951 |
| VAR16 | Number of Sheets Scanned | 4,792 |

| DATA ELEMENT | NAME | VALUE |
|---|---|---|
| VAR17 | Number of Sheets Scanned per Hour | 76.6 |
| VAR18 | Number of characters scanned (Thousands) | 7,060 |
| VAR19 | Number of characters scanned per Hour (Thousands) | 111.5 |
| VAR20 | Number of lines scanned (Thousands) | 125.8 |
| VAR21 | Number of lines scanned per Hour (Thousands) | 2.0 |
| VAR22 | Number of scanning hours | 57.9 |

Several interesting statistics can be calculated from this basic data:

- Average sheets per resume $\frac{4,792\ (VAR16)}{3,951\ (VAR15)} = 1.21$
- Average characters per resume (thousands) $\frac{7,060\ (VAR18)}{3,951\ (VAR15)} = 1.79$
- Average characters per line $\frac{7,060\ (VAR18)}{125.8\ (VAR20)} = 56.1$

This also permits us to calculate the average error rate of the scanner in terms of scanning errors per thousand characters scanned as follows:

$$1,790\ \frac{\text{characters (VAR18)}}{\text{resume (VAR15)}} + 0.05\ \frac{\text{errors}}{\text{resume}}\ (NOR12) = 35,800\ \frac{\text{characters}}{\text{error}} =$$

$$35.8\ \frac{\text{thousands of characters}}{\text{error}}$$

and, taking the inverse of this number provides the scanning error rate of:

0.03 scanning errors per thousand characters scanned.

C. COST/SAVINGS ANALYSIS

The following tabulation provides basic data entry cost information over a three year period --- one year prior to, one year during, and one year following the ERIC conversion to OCR.

| Fiscal Year | Annual Data Entry Costs | Annual Volume of Resumes Entered | Unit Cost per Resume |
|---|---|---|---|
| Nov. 1974 - Nov. 1975 | $31,050 | 15,341 | $2.024 |
| Nov. 1975 - Nov. 1976 | $30,875 | 15,633 | $1.975 |
| Nov. 1976 - Nov. 1977 | $20,857 | 15,265 | $1.366 |

These are the costs incurred by the ERIC Facility and do not include data entry costs of the Clearinghouses. However, the Clearinghouse costs do not enter into the cost/savings analysis. This is true because the data entry keying costs incurred by the Clearinghouses prior to the OCR conversion are essentially a stand-off with the costs subsequent to the OCR conversion.

The fiscal year Nov. 1975 - Nov. 1976 (the transition year) cannot be considered a typical year for purposes of this analysis since:

- Data entry during this fiscal year included a considerable amount of parallel (duplicate) keying by the ERIC facility during the experimental start-up phase. (Actually, the duplicate keying costs have been included in the estimate of the design and implementation costs discussed below.)
- Some of the OCR keying was done centrally by the ERIC Facility before the entire OCR keying load was assumed by the Clearinghouses.

Both of these factors make the costs for this year's data entry artificially too high to be considered a typical pre-OCR year. Thus, we will drop the 1976 fiscal year from this analysis and consider the fiscal year 1975 (Nov. 1974 - Nov. 1975) the typical pre-OCR year with an average unit cost of $2.024 per resume for data entry.

Further, we will consider the fiscal year 1977 a typical year for data entry via OCR yielding an average unit cost of $1.366 per resume

for data entry.

The design and implementation costs involved in the conversion to OCR can be summarized as follows:

| | |
|---|---|
| Direct Labor | $ 22,022.64 |
| Travel | 445.20 |
| Supplies | 784.19 |
| Computer Processing | 4,652.73 |
| Data Preparation | 1,080.35 |
| Printing/Duplication | 932.44 |
| Courier Service | 1,299.51 |
| Duplicate Keying (1976) | 4,459.95 |
| | $ 35,677.01 (A) |

All of the costs discussed above are representative of contract dollars loaded with overhead, G&A, and fee. With these costs in hand, and assuming a typical 15,000 resumes to be entered per year, the following simple payout calculation is possible.

- Typical pre-OCR annual data entry cost escalated by 8% to account for inflation between 1975 to 1977 is:

  15,000 resumes @ $2.024 X (1.08) = $ 32,788.80 (B)

- Typical OCR annual data entry cost is:

  15,000 resumes @ $1.366 = 20,490.00 (C)

- Typical annual savings resulting from conversion to OCR (A-B) is: = 12,298.80 (D)

- Payout period to recover $20,403.30 = $\frac{A}{D}$ = 2.90 years

## V. ANALYSIS OF QUALITATIVE FACTORS

Many of the aspects of making a transition to and operating an OCR data entry system are not amenable to characterization through the collection and analysis of quantified data as in the preceding sections of this report. This section of the report is included to provide the intelligence gained during this study regarding such qualitative factors as:

- The Keying Device
- The Keying Process
- Shipping OCR Forms via Mail
- Pre-editing of OCR Forms Prior to Scanning
- OCR Scanning
- Post-Editing of OCR Scanner Output

### A. THE KEYING DEVICE

The OCR keying was performed using IBM Selectric II typewriters, the specifications for which have been set forth in a previous section of this report. Much of the valuable intelligence gained about both the OCR keying device and the OCR keying process is well documented in the ERIC OCR Keying Manual attached to this report as Appendix A. The manual will provide general reference material to back up the highlights presented in this and the following sections of this report.

#### 1. Procurement of the OCR Typewriters

Procurement of the OCR Typewriters entailed unforeseen and surprisingly long lead times which resulted in extensive delays in the implementation of the OCR data entry system. Orders were placed for the typewriters for the Clearinghouses on April 30, 1976. Actual deliveries of the machines ranged from September 14, 1976 to October 18, 1976, the longest deliveries requiring nearly six months from the placement of the purchase orders. Responsibility for these exorbitant lead times lay partly with the Government Agency involved and partly with IBM. The point is that the procurement of typewriters cannot be assumed to be routine. Careful and continuous liaison with all the involved agencies is absolutely necessary if untoward delays are to be avoided.

#### 2. Maintenance of OCR Typewriters

Two aspects of maintenance are critical to a successful OCR keying operation. The first is cleanliness, which can best be achieved by the typist as described in the OCR Keying Manual. The second maintenance routine that proved to be absolutely essential was to have each OCR typewriter thoroughly cleaned and carefully adjusted by an IBM service technician at least once every three months. Standard

service contracts should be negotiated to assure that such servicing of the machines occurs on a routine basis.

3. Continued Operation of OCR Typewriters

The OCR Keying Manual points up two crucial points that can be taken care of by the typist in operational OCR keying. The first has to do with critical adjustments of the machine which include:

- The Dual-pitch lever (dual-pitch typewriters only), located on the top, far left, behind the platen, should always be set to 10 pitch (lever pushed away from the keyboard).

- The Multiple Copy Control, located on the top left, behind the platen, should be set at "A" (closet position to the keyboard).

- The Impression Control, small vertical lever located immediately to the right of the typing element, should be set for the greatest striking force, number 5 (the position closest to the keyboard).

- The Line Space Lever, located on the top right, behind the platen, must be set for single spacing (lever pulled toward the keyboard), unless specifically instructed otherwise.

The second point is that the quality of the typed character images is very sensitive to the type of ribbon used in the typewriter. The typist should be certain that the ribbon used for OCR keying complies with the recommendations cited in the OCR Keying Manual. Obtaining and consistently using the proper ribbons was problematic for some of the Clearinghouses. Some of them initially assumed the attitude that "a ribbon is a ribbon is a ribbon" so that any ribbon that fit the machine was used. Hard evidence of degraded image quality (and OCR scanning) was sometimes necessary to revise this attitude. Some experienced difficulties with purchasing departments that insisted on providing "lowest bid" ribbons. Occasionally, these "off-brands" would work satisfactorily, but more typically, the resulting image quality would be sufficiently degraded to significantly affect the accuracy of character recognition. The affect may be hard to detect and control because of the frequency with which ribbons are changed. IBM's TECH III ribbon will provide adequate image quality some of the time but not all of the time. As a result, it is quite strongly recommended that only the following ribbons be used for the Compuscan 170:

- Selectrics: IBM 3121 Black Film, 235 ft.
  (Reorder #1136108)
  (Will type about thirty Resumes each)

- Selectric II's: IBM Film Cartridge Ribbon, Black, 405 ft. (Reorder #1136390) (Will type about sixty Resumes each)

In summary, cleanliness and careful adjustment of the typewriters, plus use of the correct type of ribbon are factors that are critical to a successful OCR scanning operation. At least, this is true when the scanning is to be done on a Compuscan Model 170 OCR Page Reader. It was determined empirically during this study that the Compuscan 170 is very sensitive to the quality of the images of the keyed characters but is not highly sensitive to the registration or alignment of the typed text being scanned. This may not be the case, however, with other scanners, whose critical sensitivities may similarly have to be determined experimentally in their particular applications.

## B. THE KEYING PROCESS

Given the proper equipment, the actual OCR keying process varies from normal typing in only two basic ways:

- The use of the OCR character set which is illustrated in Figure 4. There are eight types of ERIC characters that required the substitution of special OCR characters. These are:

  1. Left Bracket
  2. Right Bracket
  3. Exclamation Point
  4. Greater Than Symbol
  5. Less Than Symbol
  6. Left Parenthesis
  7. Right Parenthesis
  8. Pound Sign.

  In addition the typist must learn the proper use of three control characters:

  1. The double colon, which is used only between the Field Keyword and the Field text.
  2. The "blob" which is used to overstrike characters to be deleted.
  3. The "hook" which is used to delete a preceding character (one hook), or to delete a preceding word (double hook), or to delete a preceding line (triple hook).

- The use of special forms which are illustrated in Figure 3. The main considerations in the use of the form are:

  1. to assure that the form is squarely aligned in the machine.

2. to assure that the first typed character falls within the box in the upper lefthand corner of the form.
3. to type each form completely without removing it from the machine.
4. to assure that all the text typed on the form lies within the four margins.

Specific instructions for the typing of each ERIC data element are included in the ERIC OCR Keying Manual (Appendix A). These procedures would, of course, vary from one data base to another.

Training new typists proved to involve very little difficulty. A pre-view of the OCR Keying Manual and one day's on-the-job-training was sufficient in most cases. In fact, for some typists, reading and following the Manual was all that was required.

Several quality control checks can be performed by the typist that will greatly reduce the number of problems to be experienced in the scanning process. These check points are as follows:

- Are there any broken or smeared characters. Is each character completely black? Check lower case "d's", "g's", "t's", semicolons, and "Blobs".
- Are all lines parallel to each other and to the page?
- Are there five lines to the inch? If the spacing measures about three lines to the inch, the typewriter may be incorrectly set for a space and a half.
- Are there ten characters to the inch horizontally? If a dual pitch typewriter is set at 12 pitch, the scanner cannot recognize the different characters.

This line is typed at ten (10) pitch.

This line is typed at twelve (12) pitch.

- Are the characters uniformly spaced? Not overlapping each other, like this?
- Is each line straight and not waving?
- Are the correct control characters and special characters being used?
- Are there any unacceptable pen or pencil marks?

Some Clearinghouses experimented with having the OCR keying performed by people who were not proficient typists --- document analysts, for example. This proved to be unworkable, partly because of one aspect of the correction routines involved. If a keying error is caught immediately by the typist, correction can be accomplished on a character-by-character, or a word-by-word basis (blobs, single hooks, or double hooks). However, in the case of an error caught after the entire form has been typed, a complete line must be rekeyed. A person who may average one error in one hundred characters is likely to produce an error in every other line of input keying and, thence, have to correct every other line of correction keying, etc. This obviously can lead to a tremendous volume of correction keying to produce clean input. We concluded that the combination of OCR keying with a line-by-line correction system will not work satisfactorily with keyers who are not proficient typists.

The use of staples (e.g. to fasten together multi-page document resumes) should be avoided. Staples in OCR Forms could seriously damage the scanner's read head.

C. SHIPPING OCR FORMS VIA MAIL

Care must be taken in the mailing of OCR Forms to the central Facility to assure no damage occurs to the forms in terms of dirt, physical damage such as bending or crunching, or water damage that might cause stains or distortion. For the ERIC OCR data entry system we found it necessary to design a special cardboard carton in which to ship the OCR Forms. These cartons are supplied to the Clearinghouses by the ERIC Facility. Appendix D is a letter to all the Clearinghouses providing instructions for assembling the OCR Forms shipping cartons.

For a time, during the initial shipments, the Clearinghouses were mailing the OCR Forms separately from the documents from which the forms were generated. Thus the documents and the OCR Forms often would arrive at the ERIC Facility at different times, often on different days. This separation of the two shipments often caused logging-in problems and some delays in processing at the Facility. Thus, it was subsequently recommended that the OCR Forms in their cartons be included in the packages of documents so that they would arrive at the Facility together.

D. PRE-EDITING OF FORMS PRIOR TO SCANNING

The experience of the editorial staff at the ERIC Facility proved eventually that there was little to be gained by pre-editing the OCR Forms prior to the scanning operation. Some errors can indeed be caught at a pre-editing stage. However, the additional processing routines required did not justify the elimination of the errors prior to scanning. So, as the OCR system matured, it proved more efficient to scan the OCR Forms as received from the Clearinghouses without review, and thence to catch all the errors through editing of computer proof listings subsequent to OCR scanning.

E. OCR SCANNING

1. Reliability

The Compuscan Model 170 OCR Page Reader has proven to be an extremely reliable machine. The original design of the OCR data entry system included provision for a back up machine---a similar scanner located at the Government Printing Office. It has never been necessary to use the back up machine. There have been several down-time occurrences on the scanner, but none of them has resulted in a delay so extensive that it could not be absorbed by minor schedule revisions. Actually, final agreement with GPO for back up services was never reached---back up is still not available and tested.

2. Accuracy

The scanner is also very accurate. A look at the summary data sheet for the total system (Appendix B) will show that of the total errors (content, keying, and scanning errors) (VAR10, VAR11, and VAR12) only 4.0% can be attributed to the scanner. The error rate in terms of errors per thousand characters scanned is 0.03%, as calculated in the previous section of this report.

3. Availability/Turnaround

The actual scanning of the OCR forms is normally performed during the nighttime hours. This results in a very satisfactory turnaround situtation. Barring any unusual circumstances, OCR forms delivered to the scanning subcontractor by close of business on one day will be scanned that night, and a magnetic tape containing the scanned data will be returned the following morning. This typically involves (for ERIC) sheets and characters per day.

F. POST EDITING OF OCR SCANNER OUTPUT

As previously noted, pre-editing of the OCR forms prior to scanning was eventually discontinued in favor of catching all errors during the post-editing activity. Post-editing is accomplished using a computer proof listing generated by the ERIC Line Image Data Set (LIDS) software package. The LIDS package permits corrections to be made to the data base on a line-by-line basis. At the post-editing stage, three forms of data are available to the editors:

- The original documents which were cataloged, abstracted, and indexed to produce the data to be input to the data base,
- The OCR forms on which the input data was originally keyed, and
- The LIDS printouts.

Editorial experience has shown that it is not necessary to review the OCR forms. Post-editing is accomplished through review of the LIDS printouts with reference, where required, to the original documents for verification of the data.

One of the difficulties inherent in a decentralized data entry system is the lag time between the point at which the data is keyed and the point at which the data is edited (in our case by the ERIC Facility). If problems develop in keying (such as wrong ribbon, maladjusted typewriter, etc.) there may be several weeks worth of defective data "in the pipeline" before it is detected.

## VI. CONCLUSIONS/OBSERVATIONS/RECOMMENDATIONS

The objectives of this study were twofold --- to provide evaluative intelligence about the OCR process for possible EPC data entry applications and to provide guidelines based on experience regarding the implementation and operation of an OCR data entry system. This section of the report presents our conclusions, observations, and/or recommendations specifically related to these two objectives.

### A. OCR AS AN EPC DATA ENTRY SYSTEM

1. Conclusion: The ERIC/OCR Data Entry System has proven to be completely successful in terms of the reliability, accuracy, efficiency, and costs of the system.

2. Conclusion: The success of the ERIC/OCR Data Entry system has hinged quite critically on achieving a consistently high image quality on the typed OCR forms. The high image quality in turn is a result of:

   - carefully maintained and adjusted typewriters
   - use of the proper ribbons in the typewriters
   - careful keying performed in close accordance with the ERIC/OCR Keying Manual.

3. Conclusion: Control of the image quality in the ERIC/OCR data entry system has been feasible because the keying function has been performed by a closed, relatively small, and reasonably constant community of keyers. Training and quality control among a controlled group of keyers has been easy to achieve.

   Similar quality control in an EPC environment would be much more difficult to achieve because of the much more diverse nature of the EPC community of keyers --- diverse functions (authors, editors, coordinators, etc.), diverse locations, situated in diverse types of organizations, having diverse motivations, etc.

4. Conclusion: OCR has functioned successfully in the ERIC environment partly because the data input to the ERIC data base is almost completely devoid of any special notation requirements such as mathematical or chemical, or other specialized technical notation that would be prevalent in many EPC applications.

5. Observation: Attendance at the OCR Users Annual Conference, 1976, yielded observations, pertinent to the future potential of OCR in text processing systems. The main thrust of the OCR industry is to develop machinery for "document" processing, where a document is typically considered to be a small transaction page requiring only one or two lines of OCR scanning. A typical example would be a credit card slip. Development of page readers for text processing is proceeding at a much slower pace. Text scanning calls for much higher

accuracy when measured in terms of errors(misread characters) per unit of characters scanned. Scanning processes for credit card applications, checks, etc. can be more easily controlled through the use of accuracy controls such as check digits, redundant reading, and other similar control devices. Thus, the success of OCR text processing applications will probably continue to be quite dependent on the ingenuity, and diligence of the users themselves in working with the page reading machinery available.

In general, the great majority of problems experienced in OCR applications center around the three areas:

- Inaccuracies or inconsistencies in the registration of printing on the forms used for the keying;
- Inaccuracies in the registration of the characters typed on the forms, and
- The use of inappropriate inks to generate the characters to be OCR scanned.

6. Recommendation: OCR should not be seriously considered for EPC data entry applications (or other very diverse and decentralized keying applications) unless specific methodologies can be designed and established for:

   - all input keying to be done on a standardized form.
   - consistent quality control of character images on the keyed OCR forms.
   - coping with requirements for specialized notation.

B. GUIDELINES FOR IMPLEMENTATION AND OPERATION OF OCR DATA ENTRY SYSTEMS

1. Recommendation: Purchase new or high quality used typewriters built to the proper specifications required by the specific OCR scanning hardware to be used. If all other aspects are suitable, satisfactory field modification of the ratchet is possible to obtain correct lines per inch.

2. Recommendation: Do not consider the procurement of scanners or typewriters to be routine. Exercise constant follow-up to avoid untoward procurement delays.

3. Recommendation: Establish routine service contracts to assure careful cleaning and adjustment of typewriters by a factory representative at least every three months.

4. Recommendation: Determine (experimentally if necessary) the most suitable typewriter ribbon to optimize OCR scanner accuracy, and, afterward do not permit substitution of less satisfactory types.

5. Recommendation: Design a standard form on which to do OCR keying. Preferably the form should be designed such that only one page is required to house each input unit record.

6. Recommendation: Carefully select a printer who can guarantee a very high consistency of registration of the printed images on the keying forms. This is important to assure that the scanner will be able to correctly locate the first character to be scanned on each form. Regular monitoring of registration quality will be required.

7. Recommendation: Be sure to adequately protect the keying forms (both before and after keying) from various types of damage such as dirt, stains, extraneous markings, staples or staple holes, crunching, binding, or other deformations, all of which may adversely affect the scanning accuracy. If shipping of the forms will be required, a specially designed shipping carton may be required to assure adequate protection from the elements and from rough handling.

8. Recommendation: Employ proficient typists to do OCR keying. This is especially important in systems where corrections must made on a line-by-line(rather than a character-by-character)basis, wherein inexperienced typists will find it necessary to produce large volumes of correction keying to arrive at a clean input record.

9. Recommendation: Provide keyers with a written keying manual preferably in advance of any training sessions. With a keying manual in hand, most keyers and editors will require no more than one 2 to 4 hour on-the-job training session in order to satisfactorily initiate OCR keying activities.

10. Recommendation: Plan on an adequate period of experimental keying and scanning. The objective will be to identify the specific idiosyncrasies of the specific scanner to be used. For example, in the ERIC application, we found the scanner to be very sensitive to image quality, and not so sensitive to character registration on the typed from. Suitable adjustments in the input processes could thus be effected. Each brand of scanner, and perhaps each individual machine may have specific idiosyncrasies in response to which the system will have to be fine tuned.

11. Recommendation: Recruit an expert consultant to assist in careful adjustment of the scanner to achieve optimum recognition of the characters in the particular OCR type font to be used.

12. Recommendation: If the OCR application at hand involves a conversion from a previous mode of data entry, plan on a period of parallel (duplicate) input during which testing and evaluation can proceed. This will assure the adequacy of the OCR data entry system before the previous system is abandoned.

13. Recommendation: Maintain careful and continuous scrutiny of the quality of OCR keying and provide suitable feedback to the keyers.

# APPENDIX A

# ERIC OCR KEYING MANUAL

# OCR KEYING MANUAL

JUNE 1976

PREPARED BY:

ERIC PROCESSING AND REFERENCE FACILITY

4833 Rugby Avenue, Suite 303

Bethesda, Maryland 20014

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## I. OPTICAL CHARACTER RECOGNITION (OCR)

### I.A Introduction to the Basic Process

Optical Character Recognition (OCR) is the process whereby typewritten information is optically read (recognized) by an electromechanical device (OCR scanner) designed to convert typewritten data into a machine-readable form. After this information is in machine-readable form (i.e., on magnetic tape), it can then be processed by a computer system for any given application, e.g., in ERIC's case for editing and production of RIE.

### I.B Equipment Required

The OCR process requires specialized equipment both in order to prepare the data for entry to the system and to read the data and convert it to machine-readable form.

#### I.B.1 Keying Equipment

ERIC data keyed for OCR input must be typed so as to have the following characteristics:

- o ANSI OCR-A Type Font (IBM Element #170, OCR-A).
- o Ten (10) pitch (character per inch) horizontal spacing.
- o No more than five (5) lines per inch vertical spacing.

The preferred typewriter to achieve this is either an IBM Selectric typewriter, Model #721, or an IBM Selectric II, Model 873, both with the following specifications:

- o Ten (10 pitch horizontal spacing (Dual Pitch Selectric set at ten pitch is acceptable).
- o Five (5) lines per inch vertical spacing, achieved by a 45-tooth platen ratchet, in lieu of the standard 54-tooth (6 lines per inch) ratchet.
- o Although not recessary, it may be useful to have the #170 Printing and Publishing OCR #1 keyboard, which will match the #170 Typing Element.

The 45-tooth ratchet can be installed in the field by an IBM service technician on ten pitch or Dual Pitch Selectrics, for about $25. In an emergency, or on a temporary basis, a ten pitch or Dual Pitch Selectric with six line per inch spacing

may be used, provided it is set to double space (giving three (3) lines per inch). Contact the ERIC Facility before using such a typewriter.

I.B.2 Scanning Equipment

Scanning equipment is required only at the central location involved in preparing the data for computer processing and is not required at the various sites involved in keying the data. The ERIC Facility currently uses the Compuscan 170 Scanner, which has the necessary upper-lower case capability required by ERIC.

I.C ERIC As An OCR Application

The primary objective of data entry operations is to get the data into machine-readable form quickly and accurately with as few keystrokes as possible.

Under the old arrangement, the ERIC Clearinghouses were keying the data once on standard typewriters and, after editing, the ERIC Facility was re-keying the data a second time on paper tape (via Flexowriters) in order to get it in machine-readable form.

It became clear that if the Clearinghouses could utilize that initial keying to get the data in machine-readable form, the ERIC network would save one entire keying process and would have achieved the "Source Data Automation" ideal of single-keying.

There are many devices which, if placed in the Clearinghouses, would permit them to key the ERIC data in machine-readable form. The problem was one of cost, however. The necessity of having sixteen such devices limited the options considerably. A comprehensive data input study performed by the ERIC Facility indicated that a decentralized OCR operation, with the Clearinghouses equipped with typewriters that could be used for regular work as well as the OCR work, offered the greatest potential benefits for the least cost.

## II. KEYING FOR OCR

### II.A Typewriter Adjustments

Several adjustments to the Selectric are crucial to the successful production of OCR-readable Resumes. The typist should develop the habit of checking the following controls and adjustments before starting to type any OCR data (refer to Operating Instructions Booklet furnished with the Selectric for exact locations):

- The Dual-pitch lever (dual-pitch typewriters only), located on the top, far left, behind the platen, should always be set to 10 pitch (lever pushed away from the keyboard).
- The Multiple Copy Control, located on the top left, behind the platen, should be set at "A" (closest position to the keyboard).
- The correct typing element (ANSI OCR-A, #170) is properly set in the machine.
- The Impression Control, small vertical lever located immediately to the right of the typing element, should be set for the greatest striking force, number 5 (the position closest to the keyboard).
- The Line Space Lever, located on the top right, behind the platen, must be set for single spacing (lever pulled toward the keyboard), unless specifically instructed otherwise.

Other adjustments, such as Tabs and Margins, can be set according to the preference of the typist.

### II.B Typewriter Maintenance

The only maintenance of the Selectric that the typist needs to do is keep it clean, particularly those areas that come in contact with the ribbon or paper. The typing element should be regularly cleaned, either with the special brush furnished with the machine, or with a sheet form type cleaner. The platen and paper rollers should be kept clean of all foreign material, such as Snopake or Ko-Rec-Type, etc. Each Selectric should be cleaned and adjusted at least once every three months by an IBM service technician.

## II.C Keying Supplies/Forms

### II.C.1 Ribbons

The ribbon used seriously affects the image quality of the typed Resumes. The Clearinghouses are responsible for providing high-quality, one-time-use black film ribbons for their typewriters. Suitable ribbons are available from IBM or other suppliers, such as Columbia. Recommended are the following:

- Selectrics: IBM 3121 Black Film, 235 ft.
  (Reorder #1136108)
  (Will type about thirty Resumes each)

- Selectric II's: IBM Film Cartridge Ribbon, Black, 405 ft.
  (Reorder #1136390)
  (Will type about sixty Resumes each)

Do not use IBM OCR, IBM Tech III, or any kind of fabric ribbons. If there are any questions as to the acceptability of a specific ribbon, contact the Facility. Ribbons should not be used if more than two years old.

### II.C.2 Forms

A special 11" x 11" ERIC Report Resume OCR Form (EFF-100) has been designed specifically for OCR typing (see Figure II-1, page 5), and is referred to here as the OCR Resume Form. It completely replaces the old 8½" x 11" resume forms (EFF-26). Since the new form is designed and printed specifically to be processed by the OCR scanner, it is very important that only this form be used. When your supply runs low, contact the ERIC Facility in plenty of time to have additional forms shipped to you. Use and submit to the Facility only the original form, not Xerox copies. A Xerox copy of each Resume should be retained by the Clearinghouse.

### II.C.3 Pens/Pencils

Handwritten notations and corrections can be written on the OCR Resume Form for later correction. Since the OCR scanner is "blind" to certain colors, corrections may be written directly on the OCR Resume Form (even over typed text), using any of the following:

- Non-photo blue pencils (such as Eagle number 740 1/2)
- Red pencils (such as Eagle number 744, Scarlet Red)
- Red ball point pens (such as BIC) if not used to completely obliterate a letter
- Blue Fiber tip pens (such as Flair)
- Red Fiber tip pens (such as Flair or Pilot Fineliner)

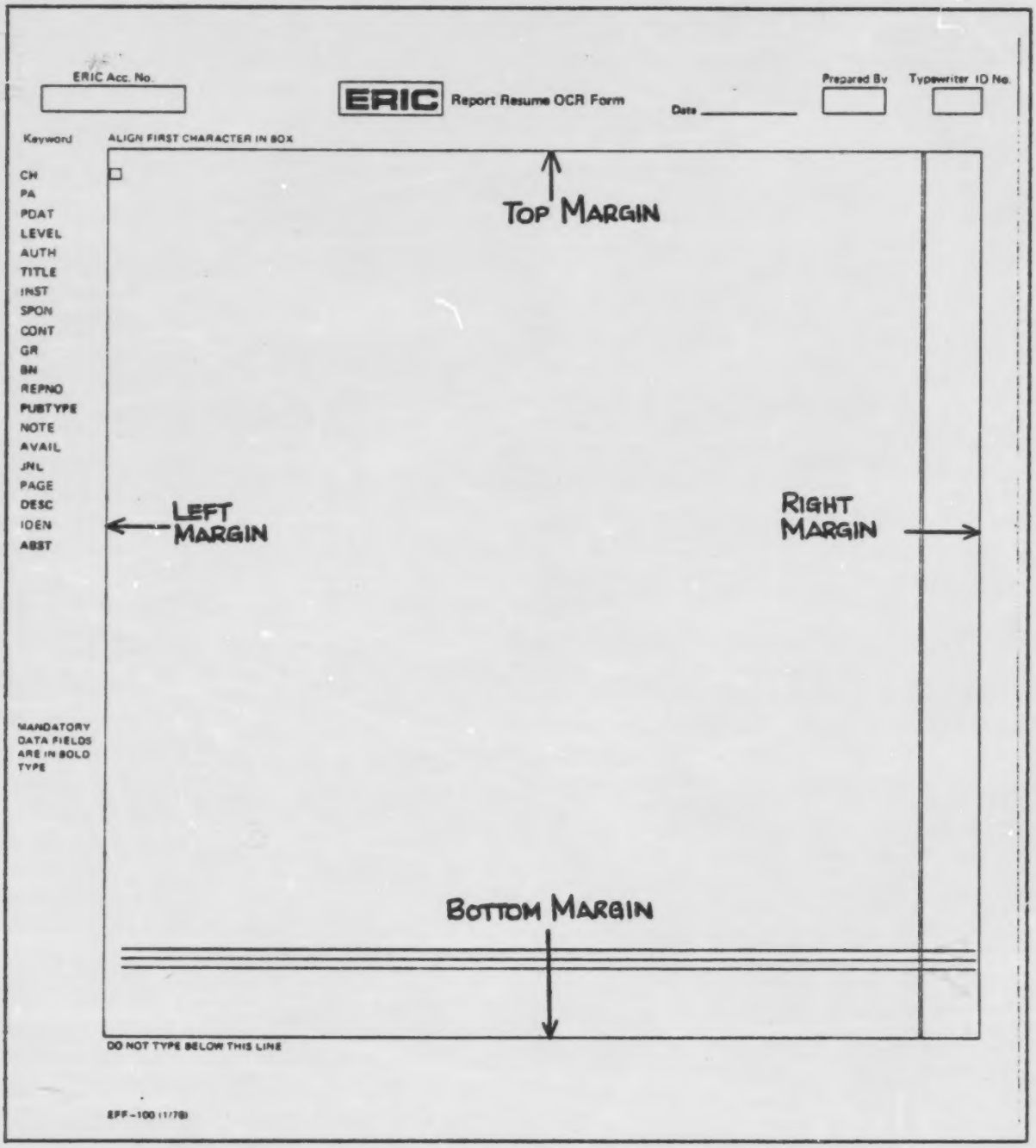



FIGURE 11-1 ERIC Report Resume Processing Form (EFF-100)

Do not use any type of black or green pen or pencil, or blue ball point pen anywhere on the OCR Resume Form. Do not use any form of eraser on the OCR Resume Form. If in doubt about a specific pen or pencil, mark and send a sample page to the ERIC Facility.

II.C.4 Storage

Since the OCR Resume Forms must be processed by a mechanical scanner, the sheets must be stored flat so that they will not become curved or wrinkled. A storage area with uniform temperature and humidity for both OCR Resume Forms and ribbons will reduce problems.

II.D Keying Process

II.D.1 Image Quality

Two crucial factors determine the success the OCR scanner will have in correctly recognizing all characters typed. Of greatest importance is the quality of the character image. Next most important is the alignment of the characters on the page, both with respect to each other, and in relation to the edges of the page.

Each character should be as black and dense as possible. All parts should be consistently darkened and have sharp edges, providing good contrast against a clean background. Experience at the Facility has shown the semicolon and the "Blob" to be good gauges of the image quality a given typewriter is providing. Refer to Figure II-2, page 7, for examples of both well-formed and poorly-formed characters. Periodically examine individual characters produced by each typewriter in detail to detect potential problems. A low power magnifying glass will help identify deficiencies. Loss of parts of a character (such as the upper portion of the semicolon) can be caused by misadjustment of the typewriter or use of the wrong ribbon. Items to check on the typewriter are covered under "Typewriter Adjustments" (Section II.A, page 3), and include the Multiple Copy Control (set as close to the keyboard as possible) and the Impression Control (set at #5). Use only film ribbons, and never reuse them. If these adjustments do not produce satisfactory results, have the machine checked by an IBM service technician, paying particular attention to the distance between the element and the platen (set for minimum "free flight").

II.D.2 Form Alignment

Since the scanner is a mechanical device, the typed characters must be uniformly spaced, both vertically and horizontally. With the proper adjustments, the IBM Selectric will produce excellent

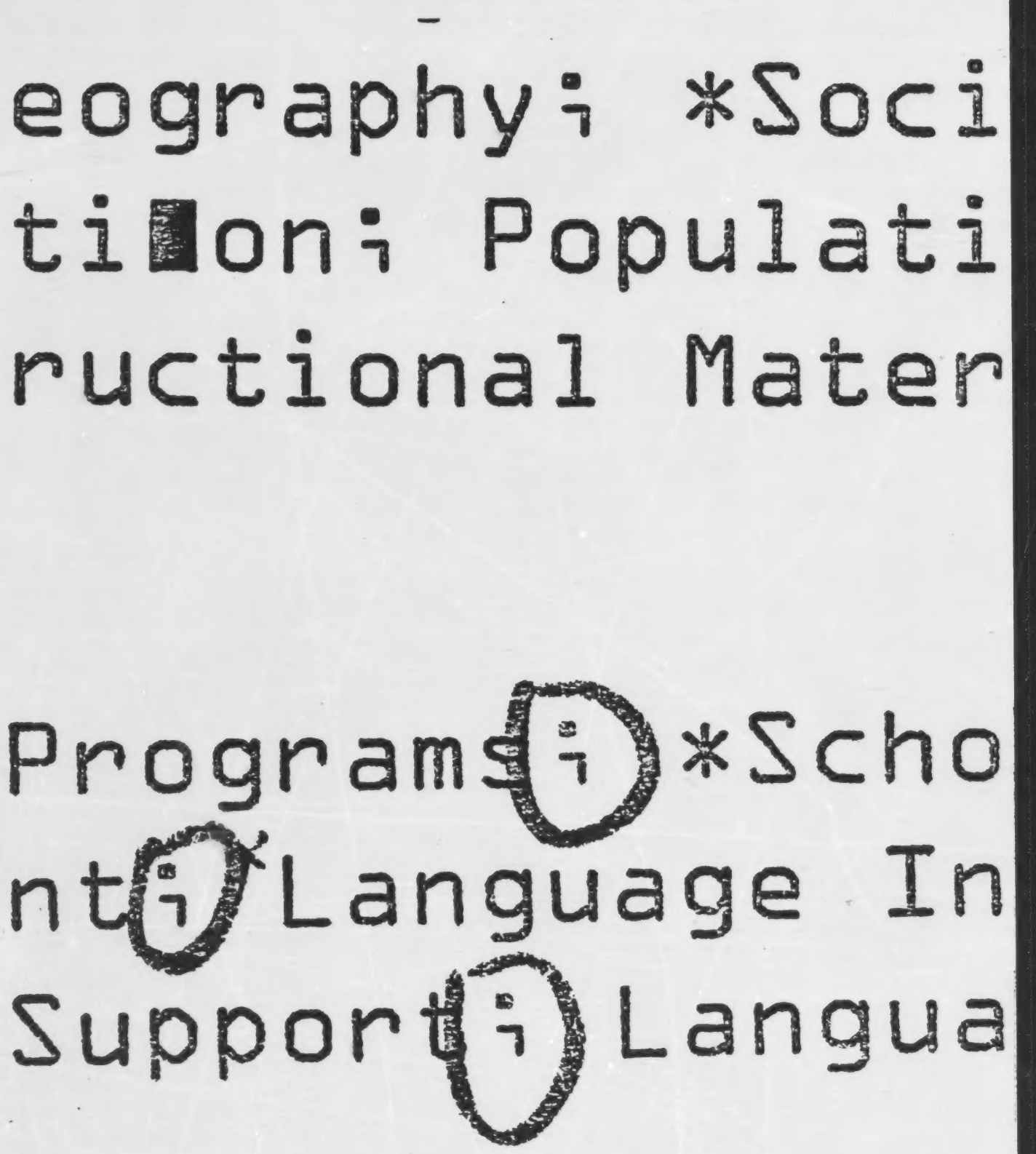



FIGURE II-2 Enlargement of Acceptable and Unacceptable Type
(Enlarged Five Times)

results. After inserting a single OCR Resume Form in the typewriter, move the page so that the first character of the Resume will be entered in the box at the upper left corner of the form. Adjust the sheet from left to right by releasing the platen pressure (Paper Release Lever to the far right, behind the platen). If necessary, set the sliding page guide (on the left side, behind the platen) to help align each page. To check that the page is square in the machine, roll the page up so that the left (or right) edges can be lined up. For vertical adjustments, press in the left platen knob, which disengages the ratchet. If lines tend to be skewed, be sure that the sheet is correctly aligned and the Paper Release Lever is pushed back. Pages with skewed lines (like this one) should be entirely retyped.

Once the first character has been typed, do not try to adjust the page, either horizontally, or vertically, even if the first character is not exactly in the box. If the first character is not within one-half space of being in the box, throw the page away and try a new one.

Type each Resume completely before removing it from the typewriter. Do not take a page out of the typewriter and then re-insert it for further typing. The only time this is permissible is to make corrections to the very first line, containing the Clearinghouse Number.

II.D.3 Margins

The scanner will examine only the area of the OCR Resume Form that is inside the outer red box (see Figure II-1, page 5) Therefore, it is extremely important that any text to be read be within those lines. Setting the first character to be typed in the alignment box will ensure that no Resume text will be above the top line. Setting the left margin at that point should prevent any part of the Resume from being typed to the left of the scan area. It is the typist's responsibility to see that no part of the Resume is typed to the right of the scan area, or below the bottom line. When in doubt, always type a shorter line. Do not hyphenate words at the end of a line.

Occasionally, it may be necessary to use more than one page for an individual Resume. Rather than crowd the bottom of the page, start a new page. The second page should carry the Clearinghouse number, the Keyword of the Field continued (usually it will be the Abstract), and the line number that the continuation should start with. See Section IV.B, page 29 and Figure IV-3 page 33, for an example of such an "overflow" page.

After "seeing" three blank lines in a row, the scanner ignores the remainder of the page. Therefore, any part of a Resume typed following more than two blank lines will not be

picked up. Similarly, the scanner ends a line after encountering three consecutive spaces. If it helps proofreading, one blank line may be left between certain Fields, such as immediately preceding the Abstract. However, enter the blank line by hitting an extra carriage return, rather than by using the platen knobs (using the platen knobs makes it too easy to roll up one and a half or two and a half spaces).

II.D.4 Non-OCR Information on Form

In addition to the regular Resume data, it is necessary to collect some information that will not be recognized by the OCR scanner. The spaces at the top of the form above the scanning area can either be typed or completed by hand (using an acceptable pen or pencil). These spaces identify the typist (initials are sufficient), the typewriter (if you only have one OCR typewriter, this can be left blank), and the date the resume is typed, so that any problems may be readily identified and corrected.

II.D.5 Character Set

The character set used by ERIC for OCR is shown in Figure II-3, page 10, along with the handling of some special characters. In typing and proofing, be sure that the letters "el" (l) and "oh" (o) and the numbers one (1) and zero (0) are used properly. Some ERIC characters (such as brackets), do not have an exact OCR equivalent; they require two typed OCR characters (two braces ( {{ ) for each bracket ([), etc.). These should always be typed without intervening "blobs" or deletion symbols. A shortened version of the character set is also printed on the back of each OCR Resume Form. For a fuller explanation of the use of the control characters, see Sections III.A.5, page 14, and IV, "Correction Procedures, page 32.

II.D.6 Quality Control

A brief check of each Resume for type quality will substantially reduce problems. A Resume that cannot be scanned may as well not have been typed. Some particular items to watch out for include:

- Broken or smeared characters. Is each character completely black? Check lower case "d's", "g's", "t's", semicolons, and "Blobs".
- Are all lines parallel to each other and to the page?
- Are there five lines to the inch? If the spacing measures about three lines to the inch, the typewriter may be incorrectly set for a space and a half.

1. ALPHABETIC (52): A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z

2. NUMERIC (10): 1 2 3 4 5 6 7 8 9 0

3. SPECIAL CHARACTERS (25):

EXACT EQUIVALENTS:

| | ERIC | OCR | | ERIC | OCR |
|---|---|---|---|---|---|
| AMPERSAND | & | & | HYPHEN | - | - |
| APOSTROPHE | ' | ' | PERCENT SIGN | % | % |
| ASTERISK | * | * | PERIOD | . | . |
| BLANK, SPACE | | | PLUS SIGN | + | + |
| COLON | : | : | QUESTION MARK | ? | ? |
| COMMA | , | , | QUOTATION MARK | " | " |
| DASH | -- | -- | SEMICOLON | ; | ; |
| DOLLAR SIGN | $ | $ | SLASH, VIRGULE | / | / |
| EQUAL SIGN | = | = | | | |

SPECIAL SUBSTITUTIONS:

| | ERIC | OCR | | ERIC | OCR |
|---|---|---|---|---|---|
| BRACKET (LEFT) | [ | {{ | LESS THAN | < | .lt. |
| BRACKET (RIGHT) | ] | }} | PARENTHESIS (LEFT) | ( | { |
| EXCLAMATION POINT | ! | ?? | PARENTHESIS (RIGHT) | ) | } |
| GREATER THAN | > | .gt. | POUND SIGN | # | ¤ |

4. OCR CONTROL CHARACTERS (3):

| | | |
|---|---|---|
| DOUBLE COLON | :: | Used only between Field Keyword and Field text. |
| "BLOB" | ■ | Overstrike on character(s) to be deleted. |
| "HOOK" | ⌐ | Deletes preceding character (one), word (two), or line (three). |

5. NOT PRESENTLY USED:

| | |
|---|---|
| "FORK" | Y |
| VERTICAL BAR | \| |
| UNDERLINE | — |

FIGURE II-3 ERIC CHARACTER SET

(Representation of ERIC Characters Using OCR-A (IBM Typing Element 170) Character Set)

- Are there ten characters to the inch horizontally? If a dual pitch typewriter is set at 12 pitch, the scanner cannot recognize the different characters.

> This line is typed at ten {10} pitch.
>
> This line is typed at twelve {12} pitch.

- Are the characters uniformly spaced? Not overlapping each other, like this?
- Is each line straight and not waving?
- Are the correct control characters and special characters being used?
- Are there any unacceptable pen or pencil marks?

## III. THE ERIC APPLICATION OF OCR - RIE RESUME PREPARATION

### III.A Definitions

#### III.A.1 Resume

A complete surrogate record or "Information Group" for a document, including cataloging data, indexing data, and an annotation or abstract describing the item in succinct narrative form. All new Resumes entering the ERIC system are identified by the Keyword "CH::", followed by the eight character Clearinghouse Accession Number, as follows:

```
CH::CE123456
```

The computer system considers a Resume to consist of all Fields following the identifying CH::| and preceding the next CH::.

#### III.A.2 Field

An element of data within a Resume, e.g., Title Field, Contract Number Field, etc. ERIC provides for 26 possible data fields, though not all are typed by the Clearinghouse or would be appropriate for any given Resume. Each Field within a Resume must be identified by its own unique Keyword immediately preceding the actual data, e.g.,

```
TITLE::Career Education for Women.
```

All typed text following a Keyword, up to the next valid Keyword, is included in that Field.

#### III.A.3 Subfield

Certain Fields may be subdivided, either into different kinds of subelements or into more than one instance of the same type of data. For example, the Personal Author Field may be subdivided into two personal authors, the Contract Number Field into more than one contract number, etc.

```
AUTH::Smith, John D.; Johnson, Jane
CONT::OEC-0-3-0371; NIE-C-73-0001
```

Likewise, the Journal Citation Field is subdivided between the journal name and the related "location" data (volume/number/date/ inclusive pagination), e.g.,

```
JNL::Journal of Health and Human Behavior; v7 n3
p1221-34 Sep 5 1966;
```

Note that subfields within a Field are always separated or "delimited" by a semicolon followed by a blank.

III.A.4 Delimiter

Within the ERIC system, the semicolon is used as the standard delimiter to separate subfields. However, in fields where subfields are not permitted (i.e., the Title and Abstract Fields), the semicolon may be routinely used as regular punctuation.

III.A.5 Keyword

A Keyword is a means for identifying/indicating/tagging the nature of the data that immediately follows it. There are two types of Keywords: the Group Keyword CH:: identifies an entire Resume or Information Group comprised of many fields; a simple Keyword identifies a single Field of data within a Resume. Every Field of data within a Resume must be preceded by its appropriate Keyword, e.g.,

```
TITLE::, AUTH::, REPNO::,
```

III.B Resume Organization

The computer system used to process Resume data after it has been scanned considers a Resume to be a group of Fields (and corrections, when present). Each Field is generally processed independently, and consists of a Keyword (such as ABST , followed by a double colon :: , and the text of the Field. Keywords (and the ::) should be typed without intervening "blobs". If an error is made typing the Keyword, delete the line (using "blobs" or three "hooks"), and type the Keyword on a new line.

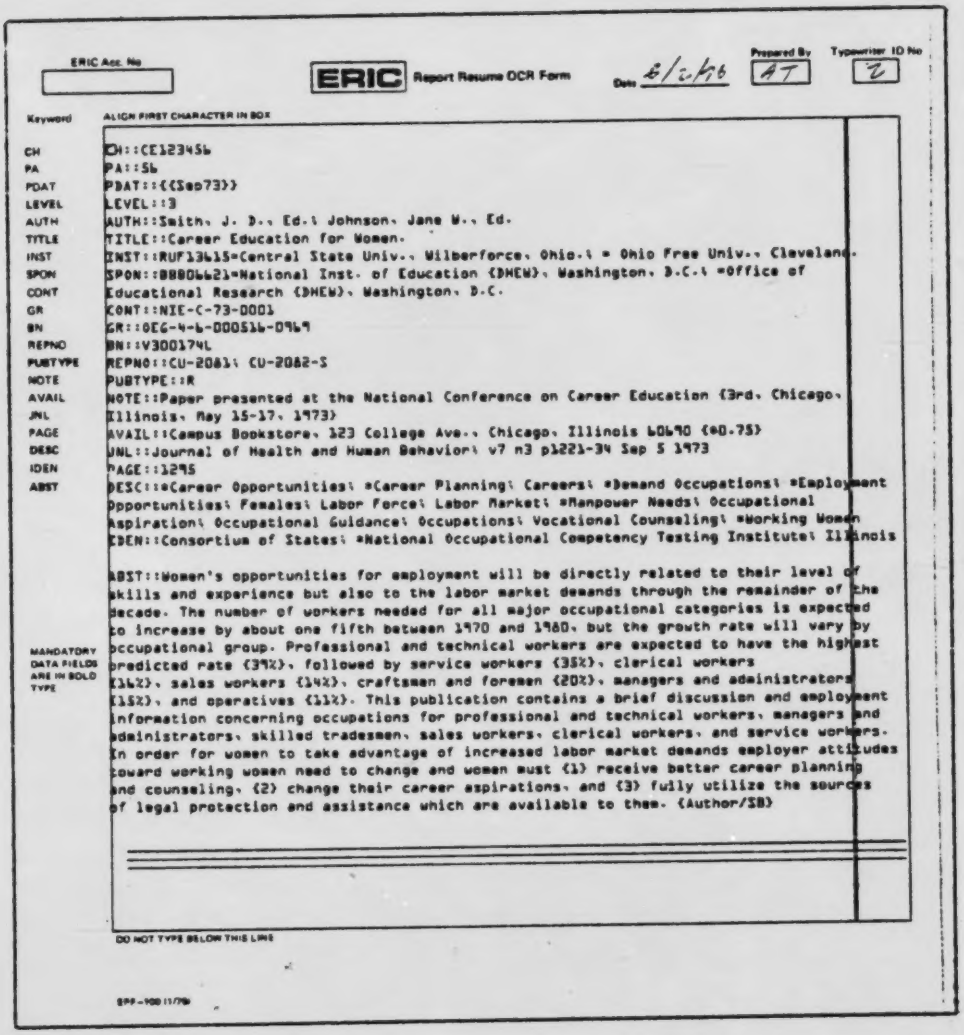
The computer program depends on the presence of the Clearinghouse Number Field ( CH:: ) to identify the start of a Resume (or corrections to a Resume). Pay particular attention to the Clearinghouse Number Field, both in typing, and in proofreading. If there are any errors in the format or content of the Clearinghouse Number Field, the entire Resume will be ignored, or it may overlay the previous Resume.

The Clearinghouse Number must always be the first Field of a Resume. The order of all other Fields within the Resume does not matter. However, it may be easier to proofread if Fields are generally typed in the same order from Resume to Resume. If a Field is accidentally omitted, it may be typed either at the end of the Resume, or added as a correction on a separate sheet. If the same Field is typed more than once for a Resume, the computer program will retain only the last occurrence of that Field, and will drop anything typed earlier. Each Field must be typed at the start of a line. Do not put more than one Field on a line. The list of Field Keywords printed on each OCR Resume Form has seven Fields marked as mandatory: CH, LEVEL, PAGE, TITLE, PUBTYPE, DESC, AND ABST. These should be present on every Resume, but not necessarily in that order.

## III.C Examples of Specific Field Formats

Figure III-1, page 16, shows a completed OCR Resume Form and utilizes a hypothetical example so that every possible Field could be exemplified. Obviously, a real-life document would not be likely to carry both a contract number and grant number. Other similar artificialities may be detected in the hypothetical example. The discussion in this section of the OCR Keying Manual illustrates the way each Field should appear on a finished OCR Resume Form and cites any specific rules that must be observed. Figure III-1, page 16 shows the proper physical location of each Field relative to the boundaries of the form. Each Field starts with a Keyword followed by a double colon (e.g., CONT::). Although most Fields should be typed in the same format used for non-OCR input, the following changes have been made to accommodate OCR typing:

- The addition of a Document Availability Level Field, LEVEL::.
- A change in the format for entering Source Codes and Names.
- Not entering the pagination as the first part of the Note Field.
- The addition of a new Field for pagination, PAGE::.
- Never entering the EDRS Price Field (this data will be calculated based on the data in the Page and Level Fields, and inserted by the computer program).



ERIC Acc. No

ERIC Report Resume OCR Form

Date 6/26/76 | Prepared By AT | Typewriter ID No 2

Keyword ALIGN FIRST CHARACTER IN BOX

CH ::CE123456
PA ::56
PDAT ::{{Sep73}}
LEVEL ::3
AUTH ::Smith, J. D., Ed.\ Johnson, Jane W., Ed.
TITLE ::Career Education for Women.
INST ::RUF13615=Central State Univ., Wilberforce, Ohio.\ = Ohio Free Univ., Cleveland.
SPON ::BBBO6621=National Inst. of Education (DHEW), Washington, D.C.\ =Office of
CONT Educational Research (DHEW), Washington, D.C.
GR ::CONT::NIE-C-73-0001
BN ::GR::OEG-4-6-000516-0969
REPNO ::BN::V3001794
PUBTYPE ::REPNO::CU-2081\ CU-2082-S
NOTE ::PUBTYPE::R
AVAIL ::NOTE::Paper presented at the National Conference on Career Education (3rd, Chicago,
JNL Illinois, May 15-17, 1973)
PAGE ::AVAIL::Campus Bookstore, 123 College Ave., Chicago, Illinois 60690 ($0.75)
DESC ::JNL::Journal of Health and Human Behavior\ v7 n3 p1221-34 Sep 5 1973
IDEN ::PAGE::1295
ABST ::DESC::=Career Opportunities\ =Career Planning\ Careers\ =Demand Occupations\ =Employment
Opportunities\ Females\ Labor Force\ Labor Market\ =Manpower Needs\ Occupational
Aspiration\ Occupational Guidance\ Occupations\ Vocational Counseling\ =Working Women
IDEN::Consortium of States\ =National Occupational Competency Testing Institute\ Illinois

ABST::Women's opportunities for employment will be directly related to their level of skills and experience but also to the labor market demands through the remainder of the decade. The number of workers needed for all major occupational categories is expected to increase by about one fifth between 1970 and 1980, but the growth rate will vary by occupational group. Professional and technical workers are expected to have the highest predicted rate (39%), followed by service workers (35%), clerical workers (16%), sales workers (14%), craftsmen and foremen (20%), managers and administrators (15%), and operatives (11%). This publication contains a brief discussion and employment information concerning occupations for professional and technical workers, managers and administrators, skilled tradesmen, sales workers, clerical workers, and service workers. In order for women to take advantage of increased labor market demands employer attitudes toward working women need to change and women must (1) receive better career planning and counseling, (2) change their career aspirations, and (3) fully utilize the sources of legal protection and assistance which are available to them. (Author/SB)

MANDATORY DATA FIELDS ARE IN BOLD TYPE

DO NOT TYPE BELOW THIS LINE

FIGURE III-1. Completed Resume Form.

III.C.1 Clearinghouse Accession Number ( CH::)

Every Resume must start with a Clearinghouse Accession Number. It is the first mandatory Field. Type the number without spaces as shown below:

```
CH::EC123456
```

III.C.2 Program Area Code ( PA::)

For OE or NIE funded reports, the Program Area Code Field may carry one of the two-digit numerical codes listed in the ERIC Processing Manual (Figure 5-5, page 152), for example:

```
PA::56
```

III.C.3 Publication Date (PDAT::)

Type the publication date of the document in one of the following forms:

```
PDAT::5Sep75
PDAT::15Sep75
PDAT::Sep75
PDAT::75
```

No other variations are permissible. Do not leave blanks or supply zeros for missing information. Use only the following three-character abbreviations for the months:

```
Jan, Feb, Mar, Apr, May, Jun,
Jul, Aug, Sep, Oct, Nov, Dec
```

If the publication date is determined by the cataloger by inference or from information not in the document, enclose the supplied date in square brackets (double braces) as follows:

```
PDAT::{{5Sep75}}
```

Do not use entries such as: 1973, Win 73, Spr 73, etc. If no date is determinable, do not type the Field.

III.C.4 Level of Availability (LEVEL::)

Determine the correct level of availability according to the guidelines in the ERIC Processing Manual (Section 5.3.6, page 153), then type the proper single digit arabic number (1, 2, or 3) in this Field, as follows:

```
LEVEL::1
LEVEL::3
```

This is a mandatory field and may not be omitted.

III.C.5 Personal Author (AUTH::)

Type personal authors according to the rules in the ERIC Processing Manual (Section 5.3.7, page 158-161). The rules governing personal author entries can be exemplified as follows:

SINGLE AUTHOR

```
AUTH::Smith, John D.
AUTH::Smith, J. D.
AUTH::Smith, J. David
```

TWO AUTHORS

```
AUTH::Smith, John D.; Johnson, Jane
```

THREE OR MORE AUTHORS

```
AUTH::Smith, John D.; And Others
```

EDITOR ENTRIES

```
AUTH::Smith, John D., Ed.
AUTH::Smith, J. D., Ed.; Johnson, J., Ed.
```

III.C.6 Document Title ( TITLE:: )

Select the appropriate title, in accordance with the guidelines in the ERIC Processing Manual (Section 5.3.8, pages 161-166). Type the Title (up to 500 characters) in this Field, as in the following example:

```
TITLE::Career Education for Women.
```

Titles should always end with a punctuation mark (period, question mark, or exclamation point). If no title can be found and one is fabricated by the cataloger, enclose the entry in square brackets (double braces ( {{ ), as follows:

```
TITLE::{{Career Education for Women.}}
```

For examples illustrating other variations such as subtitles, report statements, series titles, multi-volume titles, foreign language titles, conference proceedings, papers, speeches and congressional documents, refer to the ERIC Processing Manual noted above. This is a mandatory Field and may not be omitted.

III.C.7 Institution/Corporate Author ( INST:: )

The ERIC Processing Manual (Section 5.3.9, pages 166-168) describes the use of the ERIC Source Directory in conjunction with selecting the corporate author (institution) for the document. A Source Code and a Source Name should be identified for each institution associated with a document. After the keyword INST:: type the Source Code, followed by an equal sign ( = ), and then the Source Name, e.g.,

```
INST::RUF13615 = Central State Univ., Wilberforce, Ohio.
```

If the institution is not listed in the Source Directory, or if the correct Source Code cannot be identified, the Source Name should still be entered, preceded by an equal sign, as follows:

```
INST::=Office of Educational Research {DHEW},
Washington, D.C.
```

This format will alert the editors at the ERIC Facility that a new Source Code may be needed.

Up to four different institutions may be typed by separating each combination of Source Code (if one exists), equal sign, and Source Name, by a semicolon and a space, as follows:

```
INST::RUF13615=Central State Univ., Wilberforce, Ohio.; =
Office of Educational Research (DHEW), Washington, D.C.
```

Keep in mind that the Keyword INST:: should only be typed once for the entire group of institutions.

III.C.8 Sponsoring Agency(ies) ( SPON::)

Up to four different sponsoring agencies can be entered in the same format described above for institutions. That is, the combination of Source Code (if one exists), an equal sign, and the Source Name, should be entered for each agency. For example:

```
SPON::BBB06621=National Institute of Education (DHEW),
Washington, D.C.; =Office of Educational Research (DHEW),
Washington, D.C.
```

III.C.9 Contract Number ( CONT::)

Type contract numbers entered in this Field as follows:

```
CONT::NIE-C-73-0001
```

Two or more contract numbers are separated by a semicolon and a space, as follows:

```
CONT::NIE-C-73001; RQ-9871-2A
```

III.C.10 Grant Number ( GR:: )

Type grant numbers in this Field using the same guidelines specified above for contract numbers, e.g.,

```
GR::OEG-4-6-000516-0969
```

III.C.11 Project Control Number ( BN:: )

This Field is reserved exclusively for Office of Education Project Control Numbers, and for any NIE Project Control Numbers that may be developed in the future. No other numbers are permitted in this Field. Entries will usually be of the following form:

```
BN::V300174L
```

III.C.12 Report Number(s) ( REPNO:: )

Type report numbers matching as closely as possible to the form appearing on the report. The SLA Dictionary of Report Series Codes will be helpful in determining the correct form for report numbers. (See Appendix E of the ERIC Processing Manual for the introduction to this publication.) If the number appears in both a short form and more explicit form, the short form should be entered into this Field. A typical report number entry would be:

```
REPNO::CU-2081-S
```

Wherever a space appears in the report number in the document, insert a hyphen to assure uniformity in machine sorting. Up to four report numbers may be typed, separating each by a semi-colon and blank, as follows:

```
REPNO::CU-2081-S; VRA-412-T-63
```

Type report numbers in sequential series as follows:

```
REPNO::S-493; S-404; S-405; S-496
```

Do not use the formats:

```
REPNO::S493 thru S-496
REPNO::S493-496
```

III.C.13 Publication Type (PUBTYPE::)

Publication type is entered as a single alpha character representing the proper type according to the ERIC Processing Manual (Figure 5-6, page 178). A typical entry would be:

```
PUBTYPE::R
```

This is a mandatory Field and must always be present.

III.C.14 Descriptive Note (NOTE::)

Entries in the Note Field provide miscellaneous information extending the description of the document, and are added only when appropriate. The ERIC Processing Manual (starting on page 180) provides guidelines for descriptive notes concerning papers, speeches, reprints, dissertations, theses, foreign language, copyrighted pages, analytics, and marginal legibility. Do not abbreviate state names, as follows:

```
NOTE::Paper presented at the National Conference on Career
Education (3rd, Chicago, Illinois, May 15-17, 1973)
```

The pagination should not be entered in the Note Field, but should be entered in the Page Field for Level III documents only. The computer system will automatically insert the pagination in the Note Field.

III.C.15 Availability (AVAIL::)

Entries in this Field will conform to the following rules:

RULE 1 - When completed, this Field MUST contain all of the following information, when applicable and available:

- o Full Name of the source of the document. Extraneous phrases such as, "Subsidiary of..." should be omitted.

- o Complete Address, including street number or Post Office box number. Do not abbreviate state names.

- o Catalog, Stock or Order Number, when appropriate.

- o Price of the document.

RULE 2 - DO NOT use leading phrases, such as "Available from...", or "Hard Copy Available from...". The computer system inserts the phrase "Available from..." in all RIE Availability Field entries.

RULE 3 - DO NOT USE THE CENT (¢) SIGN: IT IS NOT IN THE ERIC CHARACTER SET! Translate prices quoted in cents to dollars, e.g., 75¢ should be typed as $0.75. Prices quoted in foreign currencies should not be abbreviated and may use only characters appearing in the ERIC character set.

Documents announced as Level 1 should show alternate availability if known. Documents processed at Level 2 should always cite any non-EDRS availability of hard copy. Documents processed at Level 3 must cite a source where the user can obtain the document. Availability is a mandatory Field for Level 3 documents.

If availability is from Federal Government agencies, city, state, and zip code are generally adequate. However, for commercial, state, and private organizations, a street address or P. O. box number are required. The ERIC Processing Manual (starting on page 185) provides guidelines relating to discounts, analytics, loans, supporting documentation, and audiovisual materials.

An example of a typical entry in this field is:

```
AVAIL::National Technical Information Service,
Springfield, Virginia  22161
(AD-741-409; MF $0.95, HC $3.00)
```

III.C.16 Journal Citation ( JNL:: )

The format of data in the Journal Citation Field should be journal title (unabbreviated) in the first subfield,

followed by a semicolon and a space. The second subfield contains the volume number, issue number, inclusive pagination, and date, in that order. Note that the inclusive pagination statement may drop repetitive digits in the figure for the last page. The other data should appear as shown in the samples. Abbreviate months of the year using the standard 3-character representations: Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec. Other common abbreviations are as follows:

| | |
|---|---|
| volume - v | Spring - Spr |
| number - n | Summer - Sum |
| page(s) - p | Fall - Fall |
| | Winter - Win |

A sample entry appears as follows:

```
JNL::Journal of Health and Human Behavior; v7 n3
p1221-34 Sept 5 1966
```

III.C.17 Pagination ( PAGE::)

This Field will be omitted by the ERIC Clearinghouse except for Level 3 documents, for which it is mandatory. The Field will be added to the Resume by the ERIC Facility for Level 1 and Level 2 documents. Do not leave a space on the OCR Resume Form for subsequent addition of this Field for Level 1 and Level 2 documents. For Level 3 documents, type the number of pages without punctuation (period, commas, or p's) as follows:

```
PAGE::1295
```

III.C.18 Descriptors ( DESC::)

Entries in this Field will be made in accordance with the following example:

```
DESC::*Career Opportunities; *Career Planning;
Careers; *Demand Occupations; Employment
Opportunities; Females; Labor Force; Labor
Market; *Manpower Needs; Occupational Aspiration;
Occupational Guidance; Occupations; Vocational
Counseling; *Working Women
```

Precede major Descriptors by an asterisk as shown above. Separate Descriptors with a semicolon and a space. No particular order is required and major Descriptors need not precede minors. Type only valid ERIC Descriptors in this Field. Type Descriptors with the first letter of each word capitalized. Acronym Descriptors are entered in all upper case, e.g., FLES. Do not capitalize articles, prepositions, and conjunctions in Descriptors unless they appear as the first word.

Spacing of multi-word Descriptors must conform precisely to that in the ERIC Thesaurus. This is a mandatory Field and may not be omitted.

III.C.19 Identifiers ( IDEN::)

Type Identifiers in accordance with the following rules:

RULE 1 - Identifier entries cannot exceed 50 characters (including spaces).

RULE 2 - Do not use special characters (except parentheses).

RULE 3 - If an acronym is entered, the spelled out version should also be entered (when available).

RULE 4 - No more than two Identifiers may be asterisked as major terms.

There is no requirement for any particular order. Rules for capitalization and spacing are identical to those for Descriptors, described above. A sample Identifier Field is as follows:

```
IDEN::Consortium of States; *National
Occupational Competency Testing Institute;
Illinois
```

III.C.20 Abstract (ABST:: )

The following rules govern the typing of Abstracts:

RULE 1 - Do not hyphenate at the end of a line.

RULE 2 - Do not exceed the word limit of 200 words (1400 characters).

(Abstracts that are only slightly longer than the limitation will generally not be modified, but those considerably longer than 200 words may be shortened by Facility editors.)

RULE 3 - Do not use the underline, superscripts, subscripts, or a double colon.

RULE 4 - Do not enter non-abstract data, specifically:

- Related document references (see the ERIC Processing Manual, sections 5.3.17 and 5.3.18, pages 181-182).
- Marginal legibility information (include in Note Field).

An example of an Abstract entry can be seen in Figure III-1, page .

RULE 5 - Lists, such as those used to enumerate parts of a document, should be entered with arabic numbers enclosed in left and right parentheses, i.e., {1}...{2}...{3}... (See last four lines of Abstract, Figure III-1, page 16).

## IV. RIE OCR RESUME CORRECTION PROCEDURES

Due to the sensitivity of the OCR scanner, the normal techniques available to correct typing errors and make changes may not be used. Specifically, do not use on the OCR Resume Forms:

- o Cover up liquids, such as Snopake.
- o Correction paper, such as Ko-Rec-Type.
- o Cover up tape.
- o Erasers.
- o Correction mechanisms available on IBM Correcting Selectric Typewriters.

Instead, two procedures have been designed to allow corrections. The first, consisting of two special OCR control characters recognized by the scanner, will allow for the immediate deletion of (effectively "erasing") individual characters, words, or lines, if typed while the page is still in the typewriter. The second method is processed by the computer system after all OCR Resume Forms have been scanned, and allows for the replacement or correction of entire Fields, or specific lines within a Field. These corrections may be typed either on the original OCR Resume Form, or on a follow-on correction page.

### IV.A Immediate Changes (Change Requirements Noticed at Time of Keying)

#### IV.A.1 Character Erase "Blob"

The OCR scanner ignores all occurrences of the "blob", without leaving an intervening blank. It can be overstruck on as many characters as necessary to be deleted. To delete, or "erase" a character, backspace to the error and type the "blob" over the character(s) to be deleted.

EXAMPLE:

| | |
|---|---|
| Input - | A■n e■x■am■■p■l■e ■of■ t■he c■h■a■r■a■c■t■e■r era■se. |
| Output - | An example of the character erase. |

Sometimes an incorrect word will be at the very end of a line and there is no space to type the word over or use the word deletion. In such an instance, simply backspace, overstrike the faulty word and continue with the correct word on the next line.

EXAMPLE:

```
                                        End of
                                        Line
An example of the character eraxe|          (Line 1)

An example of the character ■■■■■|          (Line 1)
erase                                       (Line 2)
```

Note that it is necessary to erase the entire word "eraxe" and not just the mis-keyed "x". Do not put a "blob" between or within a Keyword, the double colon following each Keyword, or any of the multi-character substitutions: ({{, }}, .gt., .lt., or ??).

IV.A.2 Character/Word/Line Editing (ʃ "Hook")

This control character is called the "hook". A single "hook" deletes the immediately preceding character.

EXAMPLE:

```
Input  - Exampxʃle of sindʃgle letterrʃ deletion

Output - Example of single letter deletion
```

Two "hooks" delete the immediately preceding word (back to, but not including, the last blank, or back to the start of the line, whichever is first).

EXAMPLE:

```
Input  - Example of workʃʃ word deletion
Output - Example of word deletion

Input  - AUTH::SmothʃʃAUTH::Smith
Output - AUTH::Smith
```

Three "hooks" delete the entire line.

EXAMPLE:

| |
|---|
| Input - This line would be deleted, for example.¬¬¬ |
| Output - |

## IV.B Follow-On Changes (Change Requirements Noticed During Post-Keying Edit)

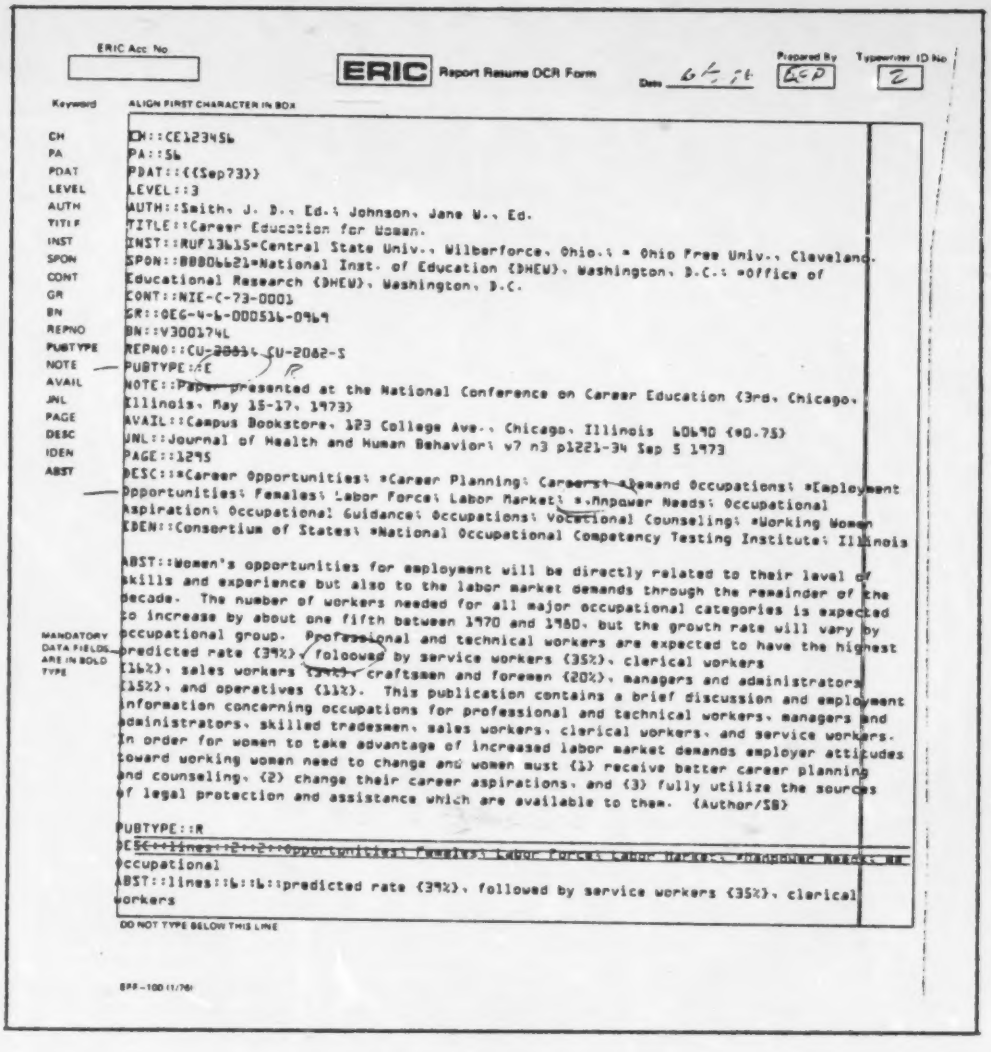
### IV.B.1 Same Page/Separate Page

In the ERIC computer system, any Resume coming through that is identified by the same Clearinghouse Number as a previous Resume will replace the old Resume to the extent that they overlap fields. That is to say, any Field within a Resume that is keyed a second time will replace the first occurrence of that Field. A Field that is not replaced remains unchanged. Therefore, to make any changes while the OCR Resume Form is still in the typewriter, simply re-type the Field. This can be done anywhere on the same page, without regard for sequence. See Figure IV-1, page 30, for examples of same-page corrections.

If a change requirement (except for Clearinghouse Number) is not noticed until after the OCR Resume Form has been removed from the typewriter, it is possible to type the correction(s) on a separate page. Do not put the form back in the typewriter to make the correction. Instead, using a separate OCR Resume Form, type the Clearinghouse number to specify the resume to which the correction pertains, followed by the necessary Field corrections. See Figure IV-2, page 31 for examples of follow-on corrections. Corrections to more than one Resume may be typed on the same correction page, provided each correction is properly identified by a Clearinghouse Number.

### IV.B.2 Correcting an Entire Field

Correction needs detected after proofing or review can be made by re-typing the entire Field (or Fields) that require change. Note: To delete an entire Field that has already been



ERIC Acc No

ERIC Report Resume OCR Form Date 6-4-74 Prepared By RCP Typewriter ID No 2

Keyword ALIGN FIRST CHARACTER IN BOX

CH CH::CE123456
PA PA::56
PDAT PDAT::{{Sep73}}
LEVEL LEVEL::3
AUTH AUTH::Smith, J. D., Ed.; Johnson, Jane W., Ed.
TITLE TITLE::Career Education for Women.
INST INST::RUF13615*Central State Univ., Wilberforce, Ohio.; = Ohio Free Univ., Cleveland.
SPON SPON::BBBB6621*National Inst. of Education (DHEW), Washington, D.C.; *Office of
CONT Educational Research (DHEW), Washington, D.C.
GR CONT::NIE-C-73-0001
BN GR::OEG-4-4-000516-0969
REPNO BN::V300174L
PUBTYPE REPNO::CU-2881; CU-2862-S
NOTE PUBTYPE::AE P
AVAIL NOTE::Paper presented at the National Conference on Career Education (3rd, Chicago,
JNL Illinois, May 15-17, 1973)
PAGE AVAIL::Campus Bookstore, 123 College Ave., Chicago, Illinois 60690 ($0.75)
DESC JNL::Journal of Health and Human Behavior; v7 n3 p1221-34 Sep 5 1973
IDEN PAGE::1295
ABST DESC::*Career Opportunities; *Career Planning; Careers; *Demand Occupations; *Employment
Opportunities; Females; Labor Force; Labor Market; *Manpower Needs; Occupational
Aspiration; Occupational Guidance; Occupations; Vocational Counseling; *Working Women
IDEN::Consortium of States; *National Occupational Competency Testing Institute; Illinois

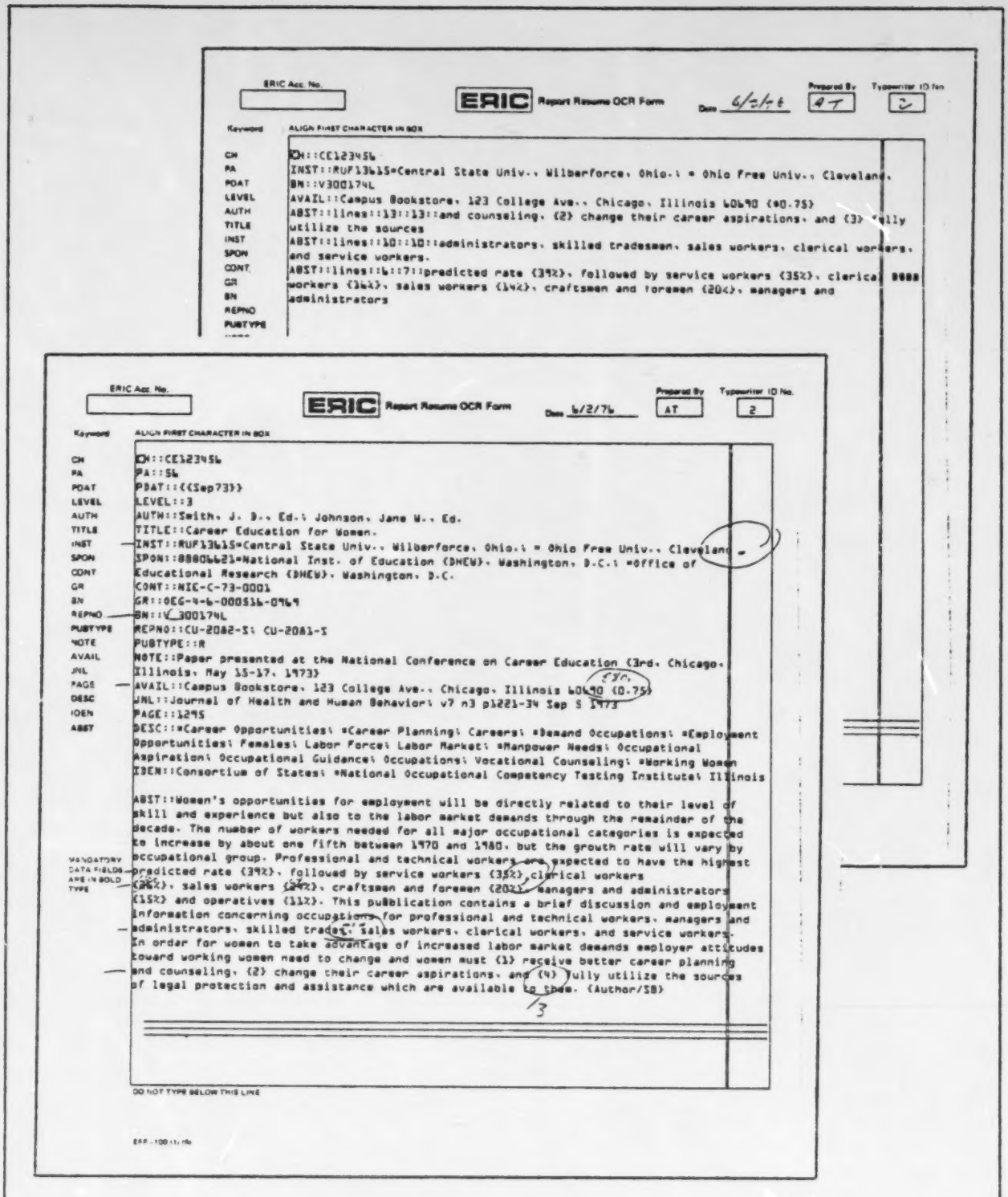
ABST::Women's opportunities for employment will be directly related to their level of skills and experience but also to the labor market demands through the remainder of the decade. The number of workers needed for all major occupational categories is expected to increase by about one fifth between 1970 and 1980, but the growth rate will vary by occupational group. Professional and technical workers are expected to have the highest predicted rate (39%), followed by service workers (35%), clerical workers (16%), sales workers (14%), craftsmen and foremen (20%), managers and administrators (15%), and operatives (11%). This publication contains a brief discussion and employment information concerning occupations for professional and technical workers, managers and administrators, skilled tradesmen, sales workers, clerical workers, and service workers. In order for women to take advantage of increased labor market demands employer attitudes toward working women need to change and women must (1) receive better career planning and counseling, (2) change their career aspirations, and (3) fully utilize the sources of legal protection and assistance which are available to them. (Author/SB)

MANDATORY DATA FIELDS ARE IN BOLD TYPE

PUBTYPE::R
DESC::lines::2::2::Opportunities; Females; Labor Force; Labor Market; Manpower Needs; Occupational
ABST::lines::4::4::predicted rate (39%), followed by service workers (35%), clerical workers

DO NOT TYPE BELOW THIS LINE

FIGURE IV-1 Resume - Sampe Page Corrections.



ERIC Acc. No.

ERIC Report Resume OCR Form Date 6/2/76 Prepared By AT Typewriter ID No. 2

Keyword ALIGN FIRST CHARACTER IN BOX

CH CH::CE123456
PA INST::RUF13615=Central State Univ., Wilberforce, Ohio.\ = Ohio Free Univ., Cleveland.
PDAT BN::V300174L
LEVEL AVAIL::Campus Bookstore, 123 College Ave., Chicago, Illinois 60690 (@0.75)
AUTH ABST::lines::13::13::and counseling, (2) change their career aspirations, and (3) fully
TITLE utilize the sources
INST ABST::lines::10::10::administrators, skilled tradesmen, sales workers, clerical workers,
SPON and service workers.
CONT ABST::lines::6::7::predicted rate (39%), followed by service workers (35%), clerical
GR workers (14%), sales workers (14%), craftsmen and foremen (20%), managers and
BN administrators
REPNO
PUBTYPE

ERIC Acc. No.

ERIC Report Resume OCR Form Date 6/2/76 Prepared By AT Typewriter ID No. 2

Keyword ALIGN FIRST CHARACTER IN BOX

CH CH::CE123456
PA PA::56
PDAT PDAT::{{Sep73}}
LEVEL LEVEL::3
AUTH AUTH::Smith, J. D., Ed.\ Johnson, Jane W., Ed.
TITLE TITLE::Career Education for Women.
INST INST::RUF13615=Central State Univ., Wilberforce, Ohio.\ = Ohio Free Univ., Cleveland
SPON SPON::8800622l=National Inst. of Education (DHEW), Washington, D.C.\ =Office of
CONT Educational Research (DHEW), Washington, D.C.
GR CONT::NIE-C-73-0001
BN GR::0EG-4-6-000516-0969
REPNO BN::V 300174L
PUBTYPE REPNO::CU-2082-S\ CU-2081-S
NOTE PUBTYPE::R
AVAIL NOTE::Paper presented at the National Conference on Career Education (3rd, Chicago,
JNL Illinois, May 15-17, 1973)
PAGE AVAIL::Campus Bookstore, 123 College Ave., Chicago, Illinois 60690 (0.75)
DESC JNL::Journal of Health and Human Behavior\ v7 n3 p1221-34 Sep S 1973
IDEN PAGE::1295
ABST DESC::*Career Opportunities\ *Career Planning\ Careers\ *Demand Occupations\ *Employment
Opportunities\ Females\ Labor Force\ Labor Market\ *Manpower Needs\ Occupational
Aspiration\ Occupational Guidance\ Occupations\ Vocational Counseling\ *Working Women
IDEN::Consortium of States\ *National Occupational Competency Testing Institute\ Illinois

ABST::Women's opportunities for employment will be directly related to their level of skill and experience but also to the labor market demands through the remainder of the decade. The number of workers needed for all major occupational categories is expected to increase by about one fifth between 1970 and 1980, but the growth rate will vary by occupational group. Professional and technical workers are expected to have the highest predicted rate (39%), followed by service workers (35%), clerical workers (20%), sales workers (14%), craftsmen and foremen (20%), managers and administrators (15%) and operatives (11%). This publication contains a brief discussion and employment information concerning occupations for professional and technical workers, managers and administrators, skilled trades, sales workers, clerical workers, and service workers. In order for women to take advantage of increased labor market demands employer attitudes toward working women need to change and women must (1) receive better career planning and counseling, (2) change their career aspirations, and (3) fully utilize the sources of legal protection and assistance which are available to them. (Author/SB)

MANDATORY DATA FIELDS ARE IN BOLD TYPE

DO NOT TYPE BELOW THIS LINE

FIGURE IV-2 Resume - Separate Page Corrections.

typed, retype the Field Keyword with no text following, i,e.,

AVAIL::

will delete the Availability Field.

IV.B.3 Corrections By Line Within A Field

Some Fields are usually several lines long and re-typing them in their entirety would be a considerable burden, not to mention leaving the way open for creating new errors where none existed before. This is especially true of the Abstract Field. In addition to entire Field corrections, the ERIC system provides for making follow-on corrections to individual lines within a Field. Correcting by line avoids re-typing the entire Field. If the change is typed on a different OCR Resume Form, type the Clearinghouse Number, followed by any Field, or line within Field corrections. Line corrections are specified by typing after the Field Keyword ::lines::, the number of the first line to be changed, ::, the number of the last line to be changed, :: (without any intervening blanks), and the replacement text (on as many new lines as necessary.

EXAMPLES:

Same Page Change

Changing 1 line:
TITLE::lines::2::2::And the Arts

Changing more than one line:
ABST::lines::6::7::predicted rate (39%), clerical workers (16%, sales workers (14%), managers and administrators

Note that when only one line is to be changed, still type "lines" and type the line number twice (first and last lines). In both cases above, the re-typed data containing any number of lines replaces the range of lines indicated, i.e., in the first example, the second line of the Title will be replaced; in the second example, lines 6 and 7 of the abstract will be replaced by three lines, starting with "predicted rate..." and ending with "administrators". See Figure IV-1, page 30, and Figure IV-3, page 33, for other examples of line corrections.

IV.B.3.a Order of Line Corrections

When making more than one change by line in the same Field (as when changing an Abstract) changes should be made from the bottom up (highest group of line numbers first) in order to avoid line re-numbering problems. If done from the top down, the first change made can affect later line numbers in effect, invalidating later changes. See Figure IV-2, page 29

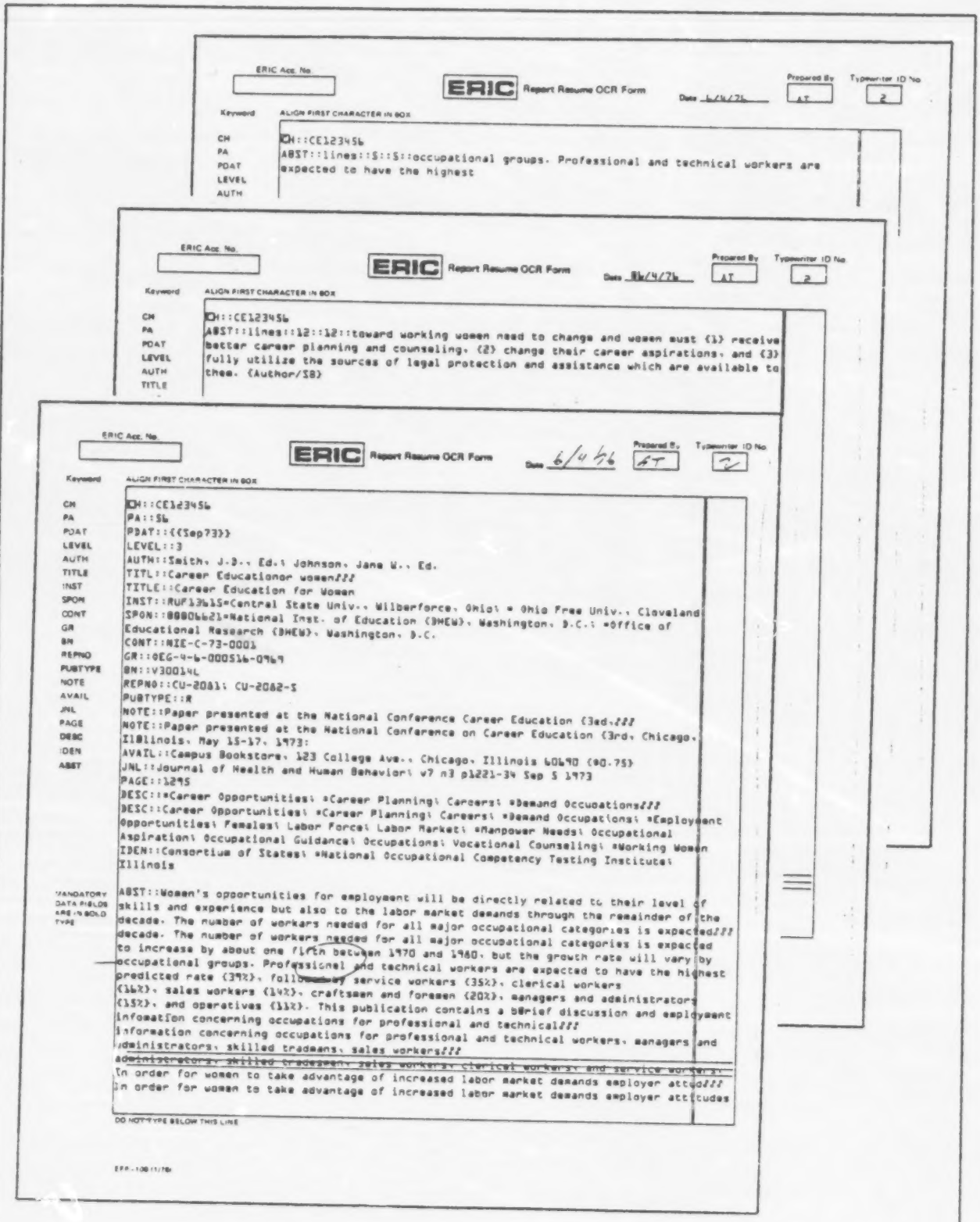

ERIC Acc. No.
ERIC Report Resume OCR Form
Date 6/4/76
Prepared By AT
Typewriter ID No 2
Keyword
ALIGN FIRST CHARACTER IN BOX
CN
PA
PDAT
LEVEL
AUTH
TITLE
CH::CE123456
ABST::lines::1::1::toward working women need to change and women must (1) receive better career planning and counseling, (2) change their career aspirations, and (3) fully utilize the sources of legal protection and assistance which are available to them. (Author/SB)
INST
SPON
CONT
GR
BN
REPNO
PUBTYPE
NOTE
AVAIL
JNL
PAGE
DESC
IDEN
ABST
PA::SB
PDAT::{{Sep73}}
LEVEL::3
AUTH::Smith, J.B., Ed.; Johnson, Jane W., Ed.
TITL::Career Educationor women///
TITLE::Career Education for Women
INST::RUF13615=Central State Univ., Wilberforce, Ohio + Ohio Free Univ., Cleveland
SPON::00000621=National Inst. of Education (DHEW), Washington, D.C.; +Office of Educational Research (DHEW), Washington, D.C.
CONT::NIE-C-73-0001
GR::OEG-0-6-000516-0969
BN::V300146
REPNO::CU-2081; CU-2082-S
PUBTYPE::R
NOTE::Paper presented at the National Conference Career Education (3rd,///
NOTE::Paper presented at the National Conference on Career Education (3rd, Chicago, Illinois, May 15-17, 1973;
AVAIL::Campus Bookstore, 123 College Ave., Chicago, Illinois 60690 ($0.75)
JNL::Journal of Health and Human Behavior; v7 n3 p1221-34 Sep 5 1973
PAGE::12P5
DESC::+Career Opportunities; +Career Planning; Careers; +Demand Occupations///
DESC::Career Opportunities; +Career Planning; Careers; +Demand Occupations; +Employment Opportunities; Females; Labor Force; Labor Market; +Manpower Needs; Occupational Aspiration; Occupational Guidance; Occupations; Vocational Counseling; +Working Women
IDEN::Consortium of States; +National Occupational Competency Testing Institute; Illinois
ABST::Women's opportunities for employment will be directly related to their level of skills and experience but also to the labor market demands through the remainder of the decade. The number of workers needed for all major occupational categories is expected/// decade. The number of workers needed for all major occupational categories is expected to increase by about one fifth between 1970 and 1980, but the growth rate will vary by occupational groups. Professional and technical workers are expected to have the highest predicted rate (39%), followed by service workers (35%), clerical workers (16%), sales workers (14%), craftsmen and foremen (20%), managers and administrators (15%), and operatives (11%). This publication contains a brief discussion and employment infomation concerning occupations for professional and technical/// information concerning occupations for professional and technical workers, managers and administrators, skilled tradesmen, sales workers///
administrators, skilled tradesmen, sales workers, clerical workers, and service workers;
In order for women to take advantage of increased labor market demands employer atti///
In order for women to take advantage of increased labor market demands employer attitudes
MANDATORY DATA FIELDS ARE IN BOLD TYPE
DO NOT TYPE BELOW THIS LINE

FIGURE IV-3 Multiple Page Resume.

IV.B.3.b Counting Lines

For the purpose of line corrections, it is necessary to take into account any deleted lines or lines added by earlier corrections. Do not count lines deleted by three hooks ( ʃʃʃ ) or lines that would be completely blank (such as a line that is completely "Blobbed" out). Include any new lines that are inserted through corrections (if entered before the current correction). For example, two lines will frequently replace one line, which will affect the line numbers of all succeeding lines.

IV.C Proofreading

After a Resume is typed and removed from the typewriter, it should be proofread for typographical, cataloging, or editorial errors. Corrections may be marked anywhere (including over the typewritten text) with red or blue pencils, red ball point pens, or red or blue Flair pens. Do not mark anywhere on the OCR Resume Form with regular black or green pencils or pens. Do not try to make any erasures on the OCR Resume Form. See Section II.D.6, Quality Control, page 9, for other items to check while proofreading.

## V. HANDLING AND SHIPPING OCR FORMS AND DOCUMENTS

The somewhat sensitive nature of the OCR scanning process dictates that the OCR Resume Forms be kept clean and undamaged physically in order to minimize scanning errors. To accomplish this requires a certain amount of special care in the handling and shipping of the forms by the Clearinghouses. Although this Manual is intended primarily as a keying manual, certain guidelines are provided in this section on storage, logging, packing, and shipping. Eventually, when all procedures have been stabilized, these guidelines will be integrated into the ERIC Processing Manual.

### V.A Logging

The special packaging requirements for the OCR Resume Forms (discussed below) will at times necessitate the shipment of OCR Resume Forms in a container separate from their associated documents. For this reason, it will now be standard practice to prepare duplicate log sheets for each shipment, one to accompany the OCR Resume Forms and one to accompany the documents. The following procedure will be typical:

> When the log sheet for a batch of documents has been prepared in accordance with the ERIC Processing Manual (Section 4.4.2, page 132) an extra Xerox copy will be made by the Clearinghouse. The two log sheets will be packed and shipped, one with the OCR Resume Forms and one with the documents. When received at the ERIC Facility, the log sheets will be checked against the OCR Resume Forms and against the documents.

In all other respects, the logging operation will remain as described in the ERIC Processing Manual.

### V.B Packing

#### V.B.1 OCR Resume Forms

The ERIC Facility will provide to each Clearinghouse a supply of cardboard cartons for the packing of OCR Resumes. These will be special 12" x 12" cartons, and will accommodate up to approximately 50 OCR Resume Forms. The OCR Resume Forms and the Resume Log Sheet should be packed in these cartons and sealed as tightly as possible to prevent shifting or water damage. When space permits, the carton(s) of OCR Resume Forms should then be packed in the same box as the documents to which they correspond to facilitate arrival of Resumes and corresponding documents at the ERIC Facility simultaneously. When space does not permit combined packaging, the cartons of Resumes may be shipped separately.

V.B.2 Documents

The ERIC Processing Manual (Section 4.4.3., page 132) will continue to apply to the packing of documents. Recent experience with damaged cartons leads to the recommendation that cardboard cartons with separate covers should be avoided. The type of carton with cover flaps integrally attached to the body of the carton is preferable because of the increased structural integrity. As noted above, it will always be preferable to pack the carton of associated OCR Resume Forms in the same carton with the documents if space permits.

V.C Wrapping, Labeling, and Addressing

The ERIC Processing Manual (Sections 4.4.4 and 4.4.5, page 135) will continue to apply to these operations with no modifications.

V.D Shipping Method and Schedule

The ERIC Processing Manual (Sections 4.4.4 and 4.4.7, pages 134 and 135) will continue to apply to these operations with no modifications.

V.E Storage of OCR Resume Forms

To prevent soiling and physical damage, OCR Resume Forms should be stored in the cartons in which they are shipped to the Clearinghouses until they are ready to be used. The storage areas should be clean and dry.

# APPENDIX B

## NUMERICAL DATA COLLECTED

APPENDIX B

NUMERICAL DATA COLLECTED

NOTE: The first sheet of this Appendix summarizes the aggregated data for data elements 1 through 14 which were collected individually for 16 Clearinghouses as shown in the following pages of this Appendix. Data elements 15 through 22 were collected only centrally and, thus, are not included in the following data sheets for each Clearinghouse.

| DATA ELEMENT | WEEK STARTING: 1976 July 26 | August 2 | August 9 | August 16 | August 23 | August 30 | September 6 | September 13 | September 20 | September 27 | October 4 | October 11 | October 18 | October 25 | November 1 | November 8 | November 15 | November 22 | November 29 | December 6 | December 13 | December 20 | December 27 | 1977 January 3 | January 10 | January 17 | January 24 | January 31 | February 7 | February 14 | February 21 | February 28 | March 7 | March 14 | March 21 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Number of Document Resumes Keyed (VAR01) | 216 | 252 | 271 | 210 | 236 | 233 | 233 | 286 | 262 | 225 | 224 | 249 | 244 | 257 | 277 | 310 | 266 | 235 | 201 | 269 | 259 | 296 | 148 | 230 | 300 | 243 | 201 | 224 | --- | --- | --- | --- | --- | --- | --- |
| 2. Number of Document Resumes Keyed per hour (VAR02) | --- | --- | --- | --- | --- | 5.2 | 5.0 | 4.1 | 4.3 | 4.5 | 4.1 | 4.4 | 4.5 | 4.6 | 5.1 | 4.4 | 4.3 | 3.9 | 4.0 | 3.6 | 3.9 | 6.2 | 4.4 | 5.4 | 5.1 | 6.1 | 4.6 | 4.5 | --- | --- | --- | --- | --- | --- | --- |
| 3. Number of Document Resumes Corrected by Clearinghouses (VAR03) | 129 | 124 | 164 | 115 | 138 | 166 | 155 | 171 | 191 | 128 | 121 | 155 | 131 | 140 | 159 | 174 | 195 | 105 | 121 | 171 | 162 | 132 | 79 | 142 | 151 | 136 | 151 | 131 | --- | --- | --- | --- | --- | --- | --- |
| 4. Number of Document Resumes Corrected by Clearinghouses per hour (VAR04) | --- | --- | --- | --- | --- | 26 | 21 | 16 | 17 | 13 | 26 | 31 | 22 | 52 | 17 | 9 | 18 | 47 | 24 | 14 | 14 | 23 | 25 | 34 | 18 | 20 | 15 | 21 | --- | --- | --- | --- | --- | --- | --- |
| 5. Number of Correction Lines Keyed by Clearinghouse (VAR05) | 538 | 466 | 646 | 384 | 525 | 567 | 476 | 741 | 602 | 418 | 474 | 556 | 515 | 552 | 759 | 661 | 742 | 460 | 496 | 811 | 667 | 566 | 302 | 600 | 715 | 574 | 619 | 493 | --- | --- | --- | --- | --- | --- | --- |
| 6. Number of Character Erasures (Blobs) (VAR06) | 2,685 | 2,993 | 2,759 | 2,745 | 3,487 | 3,161 | 2,720 | 3,693 | 3,536 | 3,200 | 2,709 | 2,855 | 2,597 | 3,061 | 3,417 | 3,221 | 3,581 | 2,252 | 2,542 | 3,001 | 2,075 | 2,435 | 2,012 | 2,610 | 2,491 | 2,911 | 3,183 | --- | --- | --- | --- | --- | --- | --- | --- |
| 7. Number of Character Deletions (Hooks) (VAR07) | 0 | 11 | 3 | 6 | 16 | 7 | 8 | 8 | 14 | 11 | 4 | 14 | 50 | 27 | 32 | 72 | 66 | 22 | 9 | 66 | 91 | 83 | 1 | 86 | 137 | 83 | 101 | --- | --- | --- | --- | --- | --- | --- | --- |
| 8. Number of Word Deletions (Double Hooks) (VAR08) | 86 | 87 | 121 | 115 | 130 | 157 | 123 | 161 | 193 | 154 | 152 | 135 | 152 | 140 | 174 | 191 | 139 | 121 | 130 | 154 | 106 | 162 | 33 | 110 | 130 | 115 | 117 | --- | --- | --- | --- | --- | --- | --- | --- |
| 9. Number of Line Deletions (Triple Hooks) (VAR09) | 59 | 60 | 49 | 34 | 51 | 66 | 67 | 99 | 78 | 71 | 74 | 78 | 71 | 97 | 74 | 83 | 61 | 67 | 59 | 85 | 41 | 61 | 30 | 53 | 60 | 61 | 64 | --- | --- | --- | --- | --- | --- | --- | --- |
| 10. Number of Content Errors Found on OCR Forms by Editors (VAR10) | 247 | 246 | 353 | 249 | 240 | 294 | 154 | 209 | 229 | 212 | 200 | 200 | 200 | 215 | 252 | 300 | 301 | 164 | 147 | 179 | 241 | 211 | 101 | 204 | 231 | 174 | 249 | 157 | --- | --- | --- | --- | --- | --- | --- |
| 11. Number of Keying Errors Found on OCR Forms by Editors (VAR11) | 34 | 43 | 73 | 62 | 60 | 90 | 50 | 93 | 47 | 106 | 61 | 44 | 62 | 51 | 60 | 125 | 114 | 64 | 51 | 76 | 54 | 46 | 27 | 90 | 83 | 84 | 92 | 82 | --- | --- | --- | --- | --- | --- | --- |
| 12. Number of Scanning Errors Found on OCR Forms by Editors (VAR12) | 21 | 5 | 21 | 20 | 14 | 12 | 20 | 1 | 2 | 4 | 2 | 21 | 4 | 13 | 6 | 11 | 12 | 17 | 1 | 6 | 9 | 5 | 1 | 13 | 43 | 3 | 4 | 3 | --- | --- | --- | --- | --- | --- | --- |
| 13. Number of Document Resumes Corrected by ERIC Facility (VAR13) | 155 | 177 | 200 | 152 | 144 | 179 | 121 | 195 | 158 | 160 | 121 | 144 | 162 | 150 | 167 | 217 | 211 | 147 | 116 | 140 | 171 | 167 | 71 | 155 | 202 | 130 | 194 | 150 | --- | --- | --- | --- | --- | --- | --- |
| 14. Number of Correction Lines Keyed by the ERIC Facility (VAR14) | 518 | 633 | 825 | 606 | 592 | 727 | 291 | 792 | 460 | 615 | 561 | 602 | 673 | 561 | 630 | 595 | 749 | 571 | 501 | 458 | 605 | 430 | 218 | 610 | 688 | 686 | 99 | --- | --- | --- | --- | --- | --- | --- | --- |
| 15. Number of Document Resumes Scanned for OCR (VAR15) | 665 | 294 | 376 | 619 | 321 | 346 | 422 | 468 | 447 | 201 | 309 | 96 | 452 | 724 | 206 | 361 | 131 | 429 | 455 | 90 | 338 | 247 | 317 | 235 | 391 | 269 | 345 | 107 | 494 | 250 | 141 | 456 | 325 | 284 | 307 |
| 16. Number of sheets (of OCR Forms) Scanned for OCR (VAR16) | 869 | 321 | 443 | 754 | 415 | 451 | 573 | 604 | 599 | 262 | 416 | 130 | 533 | 283 | 254 | 445 | 161 | 437 | 537 | 105 | 390 | 301 | 193 | 275 | 484 | 325 | 426 | 127 | 605 | 316 | 175 | 546 | 389 | 342 | 371 |
| 17. Number of sheets (of OCR Forms) Scanned per Hour (VAR17) | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 60.2 | 81.1 | 76.3 | 71.4 | 76.3 | 61.4 | 77.4 | 69.6 | 85.4 | 77.3 | 81.2 | --- | 70.9 |
| 18. Number of Characters Scanned for OCR (Thousands) (VAR18) | 1,260 | 408 | 629 | 1,009 | 556 | 565 | 676 | 806 | 761 | 388 | 520 | 156 | 802 | 378 | 327 | 637 | 227 | 738 | 812 | 145 | 597 | 932 | 559 | 365 | 682 | 478 | 605 | 290 | 935 | 509 | 222 | 859 | 587 | 514 | 545 |
| 19. Number of Characters Scanned per Hour (Thousands) (VAR19) | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 114 | 106 | 110 | 105 | 109 | 96.6 | 120 | 105 | 108 | 122 | 176 | --- | 116 |
| 20. Numbers of Lines of Text Scanned for OCR (Thousands) (VAR20) | 21.98 | 6.75 | 11.04 | 17.83 | 9.76 | 10.2 | 12.24 | 14.24 | 13.3 | 6.6 | 9.4 | 2.9 | 14.2 | 6.9 | 6.0 | 11.2 | 4.0 | 12.9 | 14.2 | 2.6 | 10.4 | 7.7 | 9.9 | 6.6 | 12.1 | 8.6 | 10.9 | 3.5 | 16.8 | 8.9 | 4.3 | 15.0 | 10.4 | 9.0 | 9.8 |
| 21. Number of Lines of Text Scanned per Hour (Thousands) (VAR21) | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2.0 | 1.95 | 1.96 | 1.89 | 1.96 | 1.69 | 2.15 | 1.84 | 2.1 | 2.12 | 2.19 | --- | 2.09 |
| 22. Number of Scanning Hours (VAR22) | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 4.9 | 3.39 | 6.18 | 4.55 | 5.55 | 2.07 | 7.82 | 4.83 | 2.05 | 7.06 | 4.75 | --- | 4.7 |

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE AA

| CASE-W | CH | MONTH | WEEK | VAR01 | VAR02 | VAR03 | VAR04 | VAR05 | VAR06 | VAR07 | VAR08 | VAR09 | VAR10 | VAR11 | VAR12 | VAR13 | VAR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | AA | 1. | 26. | 51. | 88888.0 | 15. | 88888.0 | 47. | 467. | 0. | 19. | 22. | 50. | 8. | 3. | 34. | [illegible] |
| 2 | AA | 2. | 2. | 52. | 88888.0 | 12. | 88888.0 | 34. | 613. | 0. | 12. | 17. | 78. | 15. | 0. | 42. | 17[illegible] |
| 3 | AA | 2. | 9. | 48. | 88888.0 | 22. | 88888.0 | 61. | 341. | 0. | 8. | 9. | 68. | 17. | 3. | 37. | [illegible] |
| 4 | AA | 2. | 16. | 29. | 88888.0 | 11. | 88888.0 | 19. | 271. | 0. | 8. | 2. | 40. | 19. | 1. | 26. | [illegible] |
| 5 | AA | 2. | 23. | 33. | 88888.0 | 8. | 88888.0 | 26. | 350. | 0. | 7. | 11. | 57. | 16. | 0. | 28. | 12[illegible] |
| 6 | AA | 2. | 30. | 29. | 8.9 | 2. | 12.0 | 7. | 200. | 3. | 9. | 8. | 29. | 8. | 2. | 24. | [illegible] |
| 7 | AA | 3. | 6. | 23. | 7.9 | 1. | 6.0 | 8. | 217. | 0. | 10. | 9. | 23. | 1. | 4. | 16. | [illegible] |
| 8 | AA | 3. | 13. | 33. | 5.6 | 9. | 14.0 | 33. | 362. | 0. | 24. | 17. | 29. | 6. | 0. | 19. | [illegible] |
| 9 | AA | 3. | 20. | 26. | 6.6 | 5. | 17.0 | 7. | 257. | 0. | 7. | 5. | 33. | 9. | 0. | 22. | [illegible] |
| 10 | AA | 3. | 27. | 27. | 6.8 | 13. | 33.0 | 23. | 413. | 0. | 10. | 10. | 35. | 5. | 0. | 20. | [illegible] |
| 11 | AA | 4. | 4. | 16. | 6.4 | 5. | 20.0 | 14. | 214. | 0. | 1. | 4. | 7. | 2. | 0. | 8. | [illegible] |
| 12 | AA | 4. | 11. | 8. | 88888.0 | 2. | 88888.0 | 5. | 238. | 0. | 4. | 5. | 4. | 1. | 3. | 5. | [illegible] |
| 13 | AA | 4. | 18. | 16. | 7.7 | 3. | 7.8 | 11. | 150. | 0. | 1. | 3. | 12. | 1. | 1. | 7. | [illegible] |
| 14 | AA | 4. | 25. | 8. | 4.8 | 3. | 30.0 | 8. | 195. | 0. | 1. | 2. | 11. | 1. | 0. | 5. | [illegible] |
| 15 | AA | 5. | 1. | 25. | 5.4 | 9. | 15.0 | 25. | 417. | 0. | 1. | 7. | 13. | 10. | 88888. | 16. | [illegible] |
| 16 | AA | 5. | 8. | 26. | 5.8 | 10. | 4.0 | 26. | 602. | 1. | 1. | 5. | 25. | 17. | 0. | 22. | [illegible] |
| 17 | AA | 5. | 15. | 21. | 5.7 | 10. | 6.0 | 34. | 484. | 0. | 0. | 3. | 16. | 6. | 1. | 12. | 88[illegible] |
| 18 | AA | 5. | 22. | 7. | 4.7 | 3. | 30.0 | 9. | 176. | 0. | 0. | 3. | 3. | 3. | 0. | 4. | [illegible] |
| 19 | AA | 5. | 29. | 9. | 6.8 | 3. | 11.0 | 13. | 190. | 0. | 0. | 2. | 10. | 4. | 0. | 7. | [illegible] |
| 20 | AA | 6. | 6. | 0. | 0.0 | 0. | 0.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | [illegible] |
| 21 | AA | 6. | 13. | 14. | 5.1 | 10. | 6.0 | 34. | 353. | 0. | 0. | 0. | 14. | 7. | 0. | 11. | [illegible] |
| 22 | AA | 6. | 20. | 11. | 8.5 | 4. | 8.6 | 12. | 280. | 0. | 0. | 2. | 13. | 0. | 0. | 9. | [illegible] |
| 23 | AA | 6. | 27. | 9. | 5.6 | 6. | 8.6 | 19. | 219. | 0. | 0. | 2. | 12. | 8. | 0. | 8. | [illegible] |
| 24 | AA | 7. | 3. | 0. | 0.0 | 0. | 0.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | [illegible] |
| 25 | AA | 7. | 10. | 28. | 6.2 | 9. | 9.6 | 31. | 651. | 1. | 1. | 2. | 32. | 5. | 10. | 23. | [illegible] |
| 26 | AA | 7. | 17. | 36. | 5.7 | 9. | 7.2 | 38. | 705. | 0. | 0. | 12. | 38. | 16. | 2. | 29. | 17[illegible] |
| 27 | AA | 7. | 24. | 28. | 6.0 | 14. | 6.0 | 42. | 680. | 0. | 0. | 4. | 33. | 3. | 0. | 19. | [illegible] |
| 28 | AA | 7. | 31. | 24. | 6.7 | 12. | 88888.0 | 42. | 88888. | 88888. | 88888. | 88888. | 24. | 13. | 0. | 19. | [illegible] |
| 29 | AA | 8. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 30 | AA | 8. | 14. | 88888. | 5.6 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 31 | AA | 8. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 32 | AA | 8. | 28. | 88888. | 5.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 33 | AA | 9. | 7. | 88888. | 5.7 | 88888. | 7.2 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 34 | AA | 9. | 14. | 88888. | 7.1 | 88888. | 2.2 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 35 | AA | 9. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |

CB STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
DEFILE BB

| CASE-N | CH | MONTH | WEEK | VAR01 | VAR02 | VAR03 | VAR04 | VAR05 | VAR06 | VAR07 | VAR08 | VAR09 | VAR10 | VAR11 | VAR12 | VAR13 | VAR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BB | 1. | 26. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 2 | BB | 2. | 2. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 3 | BB | 2. | 9. | 30. | 88888.0 | 22. | 88888.0 | 56. | 103. | 0. | 40. | 3. | 25. | 10. | 0. | 24. | 116. |
| 4 | BB | 2. | 16. | 30. | 88888.0 | 9. | 88888.0 | 36. | 81. | 0. | 47. | 4. | 53. | 11. | 0. | 22. | 96. |
| 5 | BB | 2. | 23. | 30. | 88888.0 | 19. | 88888.0 | 69. | 132. | 0. | 46. | 4. | 50. | 7. | 0. | 23. | 99. |
| 6 | BB | 2. | 30. | 30. | 88888.0 | 24. | 88888.0 | 91. | 129. | 0. | 66. | 7. | 35. | 14. | 0. | 21. | 88. |
| 7 | BB | 3. | 6. | 88888. | 3.6 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 8 | BB | 3. | 13. | 25. | 1.7 | 17. | 16.0 | 68. | 122. | 0. | 47. | 4. | 26. | 7. | 0. | 21. | 88. |
| 9 | BB | 3. | 20. | 32. | 3.0 | 25. | 13.0 | 79. | 103. | 0. | 77. | 16. | 25. | 5. | 0. | 17. | 82. |
| 10 | BB | 3. | 27. | 25. | 3.0 | 14. | 9.0 | 38. | 200. | 0. | 58. | 9. | 25. | 2. | 0. | 15. | 73. |
| 11 | BB | 4. | 4. | 30000. | 2.8 | 18. | 21.0 | 87. | 251. | 0. | 70. | 6. | 16. | 5. | 88888. | 19. | 93. |
| 12 | BB | 4. | 11. | 30. | 2.6 | 11. | 40.0 | 33. | 134. | 0. | 52. | 13. | 20. | 3. | 0. | 14. | 88. |
| 13 | BB | 4. | 18. | 30. | 2.4 | 18. | 12.0 | 54. | 164. | 0. | 66. | 11. | 18. | 5. | 0. | 15. | 77. |
| 14 | BB | 4. | 25. | 30. | 88888.0 | 13. | 88888.0 | 47. | 193. | 0. | 50. | 7. | 18. | 7. | 0. | 18. | 85. |
| 15 | BB | 5. | 1. | 29. | 2.6 | 22. | 13.0 | 94. | 163. | 0. | 68. | 5. | 26. | 7. | 88888. | 17. | 88. |
| 16 | BB | 5. | 8. | 30. | 88888.0 | 23. | 88888.0 | 85. | 149. | 0. | 60. | 6. | 38. | 15. | 0. | 24. | 104. |
| 17 | BB | 5. | 15. | 30. | 88888.0 | 20. | 88888.0 | 76. | 189. | 0. | 67. | 6. | 33. | 5. | 1. | 20. | 88888. |
| 18 | BB | 5. | 22. | 14. | 88888.0 | 12. | 88888.0 | 45. | 136. | 0. | 39. | 6. | 9. | 4. | 2. | 9. | 41. |
| 19 | BB | 5. | 29. | 30000. | 88888.0 | 29. | 88888.0 | 113. | 202. | 1. | 65. | 5. | 13. | 4. | 88888. | 10. | 37. |
| 20 | BB | 6. | 6. | 34. | 88888.0 | 5. | 88888.0 | 17. | 74. | 0. | 50. | 7. | 13. | 5. | 88888. | 12. | 88888. |
| 21 | BB | 6. | 13. | 30. | 88888.0 | 8. | 88888.0 | 23. | 88888. | 88888. | 88888. | 88888. | 18. | 0. | 3. | 13. | 54. |
| 22 | BB | 6. | 20. | 38. | 88888.0 | 6. | 88888.0 | 22. | 100. | 0. | 44. | 10. | 25. | 2. | 0. | 19. | 88. |
| 23 | BB | 6. | 27. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 24 | BB | 7. | 3. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 25 | BB | 7. | 10. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 26 | BB | 7. | 17. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 27 | BB | 7. | 24. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 28 | BB | 7. | 31. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 29 | BB | 8. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 30 | BB | 8. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 31 | BB | 8. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 32 | BB | 8. | 28. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 33 | BB | 9. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 34 | BB | 9. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 35 | BB | 9. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |

06

CCH STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE CC

| CASE-N | CH | MONTH | WEEK | VAR01 | VAR02 | VAR03 | VAR04 | VAR05 | VAR06 | VAR07 | VAR08 | VAR09 | VAR10 | VAR11 | VAR12 | VAR13 | VAR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CC | 1. | 26. | 12. | 88888.0 | 3. | 88888.0 | 10. | 190. | 0. | 0. | 0. | 9. | 1. | 1. | 9. | 20. |
| 2 | CC | 2. | 2. | 10. | 88888.0 | 8. | 88888.0 | 24. | 196. | 0. | 1. | 1. | 10. | 1. | 2. | 8. | 22. |
| 3 | CC | 2. | 9. | 10. | 88888.0 | 6. | 88888.0 | 21. | 187. | 0. | 2. | 7. | 12. | 1. | 9. | 10. | 21. |
| 4 | CC | 2. | 16. | 10. | 88888.0 | 10. | 88888.0 | 20. | 240. | 0. | 1. | 1. | 14. | 5. | 16. | 9. | 20. |
| 5 | CC | 2. | 23. | 12. | 88888.0 | 10. | 88888.0 | 55. | 305. | 0. | 7. | 0. | 12. | 7. | 9. | 9. | 21. |
| 6 | CC | 2. | 30. | 7. | 88888.0 | 6. | 88888.0 | 40. | 182. | 0. | 2. | 0. | 4. | 6. | 0. | 6. | 12. |
| 7 | CC | 3. | 6. | 0. | 0.0 | 0. | 0.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 8 | CC | 3. | 13. | 14. | 88888.0 | 12. | 88888.0 | 46. | 348. | 0. | 1. | 0. | 53. | 22. | 1. | 32. | 13. |
| 9 | CC | 3. | 20. | 13. | 88888.0 | 31. | 88888.0 | 128. | 372. | 0. | 5. | 1. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 10 | CC | 3. | 27. | 12. | 88888.0 | 11. | 88888.0 | 43. | 388. | 0. | 5. | 6. | 10. | 2. | 0. | 6. | 21. |
| 11 | CC | 4. | 4. | 10. | 8.0 | 10. | 24.0 | 44. | 311. | 0. | 1. | 4. | 8. | 5. | 88888. | 6. | 23. |
| 12 | CC | 4. | 11. | 0. | 0.0 | 0. | 0.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 13 | CC | 4. | 18. | 20. | 88888.0 | 15. | 88888.0 | 78. | 425. | 0. | 14. | 3. | 34. | 7. | 0. | 22. | 67. |
| 14 | CC | 4. | 25. | 19. | 88888.0 | 17. | 88888.0 | 104. | 455. | 0. | 2. | 15. | 39. | 10. | 1. | 14. | 32. |
| 15 | CC | 5. | 1. | 14. | 88888.0 | 14. | 88888.0 | 68. | 232. | 0. | 1. | 8. | 22. | 8. | 2. | 11. | 41. |
| 16 | CC | 5. | 8. | 18000. | 88888.0 | 14. | 88888.0 | 60. | 684. | 0. | 12. | 11. | 24. | 15. | 1. | 18. | 19. |
| 17 | CC | 5. | 15. | 17. | 88888.0 | 17. | 88888.0 | 87. | 371. | 0. | 2. | 5. | 20. | 9. | 0. | 12. | 88888. |
| 18 | CC | 5. | 22. | 10. | 88888.0 | 8. | 88888.0 | 39. | 283. | 0. | 9. | 2. | 2. | 2. | 0. | 14. | 1. |
| 19 | CC | 5. | 29. | 15. | 88888.0 | 13. | 88888.0 | 54. | 363. | 0. | 5. | 3. | 21. | 11. | 0. | 13. | 44. |
| 20 | CC | 6. | 6. | 12. | 88888.0 | 11. | 88888.0 | 112. | 403. | 0. | 4. | 13. | 13. | 7. | 88888. | 7. | 11. |
| 21 | CC | 6. | 13. | 12. | 88888.0 | 11. | 88888.0 | 45. | 258. | 0. | 6. | 5. | 16. | 2. | 0. | 9. | 31. |
| 22 | CC | 6. | 20. | 9. | 88888.0 | 6. | 88888.0 | 31. | 170. | 0. | 2. | 7. | 15. | 2. | 0. | 9. | 31. |
| 23 | CC | 6. | 27. | 7. | 88888.0 | 6. | 88888.0 | 27. | 110. | 0. | 2. | 3. | 10. | 3. | 0. | 7. | 24. |
| 24 | CC | 7. | 3. | 11. | 88888.0 | 13. | 88888.0 | 72. | 250. | 0. | 7. | 11. | 15. | 6. | 1. | 8. | 54. |
| 25 | CC | 7. | 10. | 12. | 88888.0 | 7. | 88888.0 | 43. | 170. | 1. | 9. | 3. | 33. | 19. | 1. | 21. | 88888. |
| 26 | CC | 7. | 17. | 12. | 88888.0 | 6. | 88888.0 | 23. | 165. | 0. | 2. | 4. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 27 | CC | 7. | 24. | 11. | 88888.0 | 9. | 88888.0 | 32. | 126. | 0. | 5. | 0. | 12. | 1. | 0. | 8. | 88888. |
| 28 | CC | 7. | 31. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 29 | CC | 8. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 30 | CC | 8. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 31 | CC | 8. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 32 | CC | 8. | 28. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 33 | CC | 9. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 34 | CC | 9. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 35 | CC | 9. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |

STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

LE CBDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
EFILE DD

| CASE-# | CH | MONTH | WEEK | VAR01 | VAR02 | VAR03 | VAR04 | VAR05 | VAR06 | VAR07 | VAR08 | VAR09 | VAR10 | VAR11 | VAR12 | VAR13 | VAR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DD | 1. | 26. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 66888. | 88888. | 88888. | 88888. | 88888. |
| 2 | DD | 2. | 2. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 3 | DD | 2. | 9. | | 88888.0 | | 88888.0 | | | | | 1. | 12. | 0. | 0. | 8. | 8. |
| 4 | DD | 2. | 16. | 12. | 88888.0 | 3. | 88888.0 | 13. | 58. | 0. | 5. | 8. | 16. | 2. | 0. | 8. | 8. |
| 5 | DD | 2. | 23. | 13. | 88888.0 | 4. | 88888.0 | 20. | 89. | 0. | 7. | 4. | 17. | 3. | 0. | 9. | 15. |
| 6 | DD | 2. | 30. | 11. | 88888.0 | 4. | 88888.0 | 13. | 195. | 0. | 5. | 5. | 12. | 2. | 0. | 8. | 22. |
| 7 | DD | 3. | 6. | 12. | 6.3 | 3. | 35.0 | 13. | 123. | 0. | 1. | 0. | 0. | 0. | 0. | 0. | 0. |
| 8 | DD | 3. | 13. | 0. | 0.0 | 0. | 0.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 12. | 70. |
| 9 | DD | 3. | 20. | 23. | 5.8 | 16. | 38.0 | 61. | 360. | 0. | 7. | 16. | 18. | 4. | 0. | 2. | 7. |
| 10 | DD | 3. | 27. | 10. | 6.7 | 6. | 51.0 | 13. | 171. | 0. | 5. | 2. | 2. | 1. | 0. | 7. | 15. |
| 11 | DD | 4. | 4. | 12. | 5.7 | 88888. | 88888.0 | 88888. | 228. | 0. | 4. | 6. | 6. | 4. | 0. | 0. | 0. |
| 12 | DD | 4. | 11. | 0. | 0.0 | 0. | 0.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 14. | 33. |
| 13 | DD | 4. | 18. | 17. | 6.1 | 5. | 88888.0 | 25. | 360. | 0. | 0. | 9. | 20. | 2. | 1. | 11. | 52. |
| 14 | DD | 4. | 25. | 16. | 7.3 | 6. | 45.0 | 21. | 120. | 0. | 6. | 8. | 12. | 2. | 1. | 6. | 10. |
| 15 | DD | 5. | 1. | 12. | 88888.0 | 3. | 88888.0 | 90000. | 112. | 0. | 6. | 0. | 10. | 0. | 0. | 11. | 45. |
| 16 | DD | 5. | 8. | 15. | 9.3 | 4. | 40.0 | 13. | 135. | 0. | 7. | 3. | 3. | 0. | 0. | 11. | 54. |
| 17 | DD | 5. | 15. | 15. | 7.3 | 9. | 6.0 | 35. | 168. | 1. | 3. | 5. | 14. | 5. | 0. | 0. | 0. |
| 18 | DD | 5. | 22. | 14. | 88888.0 | 12. | 88888.0 | 50. | 45. | 0. | 4. | 0. | 9. | 0. | 0. | 0. | 0. |
| 19 | DD | 5. | 29. | 0. | 0.0 | 0. | 0.0 | 0. | 0. | 0. | 0. | 0. | 0. | 11. | 1. | 10. | 77. |
| 20 | DD | 6. | 6. | 22. | 88888.0 | 15. | 88888.0 | 74. | 309. | 0. | 6. | 0. | 10. | 11. | 0. | 11. | 88. |
| 21 | DD | 6. | 13. | 22. | 88888.0 | 10. | 88888.0 | 74. | 140. | 0. | 3. | 11. | 11. | 8. | 1. | 7. | 99. |
| 22 | DD | 6. | 20. | 12. | 88888.0 | 6. | 88888.0 | 27. | 128. | 0. | 0. | 1. | 5. | 6. | 2. | 7. | 99. |
| 23 | DD | 6. | 27. | 12. | 88888.0 | 5. | 88888.0 | 21. | 112. | 0. | 6. | 5. | 8. | 0. | 2. | 0. | 0. |
| 24 | DD | 7. | 3. | 0. | 0.0 | 0. | 0.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 1. | 7. | 99. |
| 25 | DD | 7. | 10. | 15. | 88888.0 | 7. | 88888.0 | 22. | 99. | 0. | 7. | 5. | 6. | 3. | 1. | 7. | 23. |
| 26 | DD | 7. | 17. | 44. | 88888.0 | 4. | 88888.0 | 16. | 83. | 0. | 2. | 1. | 0. | 0. | 0. | 3. | 3. |
| 27 | DD | 7. | 24. | 13. | 88888.0 | 3. | 88888.0 | 9. | 92. | 0. | 4. | 0. | 0. | 0. | 0. | 0. | 0. |
| 28 | DD | 7. | 31. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 29 | DD | 8. | 7. | 16. | 88888.0 | 5. | 88888.0 | 17. | 88888. | 88888. | 88888. | 88888. | 88888. | 0. | 0. | 6. | 6. |
| 30 | DD | 8. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 31 | DD | 8. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 32 | DD | 8. | 28. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 33 | DD | 9. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 34 | DD | 9. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 35 | DD | 9. | 21. | | | | | | | | | | | | | | |

JCT STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE EE

| CASE-N | CH | MONTH | WEEK | VAR01 | VAR02 | VAR03 | VAR04 | VAR05 | VAR06 | VAR07 | VAR08 | VAR09 | VAR10 | VAR11 | VAR12 | VAR13 | VAR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EE | 1. | 26. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 2 | EE | 2. | 2. | 28. | 88888.0 | 15. | 88888.0 | 53. | 15. | 0. | 12. | 1. | 46. | 2. | 0. | 21. | 72. |
| 3 | EE | 2. | 9. | 30. | 88888.0 | 16. | 88888.0 | 33. | 101. | 0. | 9. | 1. | 16. | 1. | 0. | 11. | 41. |
| 4 | EE | 2. | 16. | 23. | 88888.0 | 14. | 88888.0 | 46. | 13000. | 0. | 10. | 1. | 21. | 1. | 0. | 16. | 45. |
| 5 | EE | 2. | 23. | 15. | 88888.0 | 9. | 88888.0 | 31. | 140. | 0. | 10. | 2. | 10. | 3. | 0. | 8. | 32. |
| 6 | EE | 2. | 30. | 25. | 88888.0 | 15. | 88888.0 | 36. | 157. | 0. | 16. | 9. | 23. | 4. | 2. | 18. | 54. |
| 7 | EE | 3. | 6. | 24. | 88888.0 | 19. | 88888.0 | 45. | 179. | 0. | 18. | 9. | 4. | 0. | 0. | 4. | 17. |
| 8 | EE | 3. | 13. | 17. | 11.6 | 10. | 120.0 | 32. | 89. | 0. | 11. | 0. | 8. | 0. | 0. | 5. | 18. |
| 9 | EE | 3. | 20. | 12. | 6.3 | 6. | 18.0 | 16. | 96. | 0. | 12. | 0. | 4. | 88888. | 88888. | 2. | 9. |
| 10 | EE | 3. | 27. | 15. | 6.2 | 9. | 28.0 | 22. | 208. | 0. | 8. | 1. | 5. | 6. | 0. | 6. | 23. |
| 11 | EE | 4. | 4. | 30. | 8.7 | 17. | 34.0 | 50. | 201. | 0. | 11. | 8. | 11. | 1. | 0. | 8. | 33. |
| 12 | EE | 4. | 11. | 18. | 7.2 | 15. | 48.0 | 48. | 109. | 0. | 8. | 3. | 9. | 1. | 0. | 9. | 11. |
| 13 | EE | 4. | 18. | 13. | 8.2 | 7. | 21.0 | 25. | 164. | 0. | 12. | 5. | 15. | 1. | 0. | 9. | 33. |
| 14 | EE | 4. | 25. | 12. | 9.0 | 4. | 90.0 | 13. | 96. | 0. | 9. | 0. | 7. | 0. | 0. | 8. | 17. |
| 15 | EE | 5. | 1. | 25. | 88888.0 | 12. | 88888.0 | 43. | 216. | 0. | 10. | 6. | 24. | 11. | 0. | 18. | 61. |
| 16 | EE | 5. | 8. | 26. | 88888.0 | 15. | 88888.0 | 50. | 161. | 0. | 15. | 7. | 88888. | 88888. | 88888. | 15. | 57. |
| 17 | EE | 5. | 15. | 27. | 88888.0 | 11. | 88888.0 | 35. | 206. | 0. | 6. | 5. | 19. | 5. | 0. | 14. | 88888. |
| 18 | EE | 5. | 22. | 18. | 88888.0 | 6. | 88888.0 | 17. | 150. | 0. | 11. | 6. | 17. | 0. | 0. | 13. | 46. |
| 19 | EE | 5. | 29. | 19. | 88888.0 | 5. | 88888.0 | 22. | 84. | 0. | 2. | 5. | 12. | 0. | 0. | 10. | 32. |
| 20 | EE | 6. | 6. | 11. | 88888.0 | 4. | 88888.0 | 16. | 62. | 0. | 3. | 1. | 5. | 1. | 0. | 6. | 19. |
| 21 | EE | 6. | 13. | 16. | 88888.0 | 10. | 88888.0 | 34. | 145. | 0. | 8. | 5. | 38. | 9. | 88888. | 28. | 79. |
| 22 | EE | 6. | 20. | 27. | 88888.0 | 9. | 88888.0 | 30. | 178. | 0. | 7. | 8. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 23 | EE | 6. | 27. | 14. | 88888.0 | 9. | 88888.0 | 46. | 107. | 0. | 5. | 2. | 2. | 3. | 1. | 5. | 17. |
| 24 | EE | 7. | 3. | 18. | 88888.0 | 10. | 88888.0 | 35. | 92. | 0. | 7. | 3. | 10. | 5. | 0. | 9. | 29. |
| 25 | EE | 7. | 10. | 16. | 88888.0 | 3. | 88888.0 | 13. | 89. | 0. | 3. | 0. | 14. | 1. | 0. | 14. | 53. |
| 26 | EE | 7. | 17. | 29. | 88888.0 | 13. | 88888.0 | 48. | 171. | 0. | 15. | 3. | 10. | 2. | 88888. | 6. | 19. |
| 27 | EE | 7. | 24. | 30. | 88888.0 | 11. | 88888.0 | 36. | 168. | 0. | 28. | 5. | 29. | 5. | 88888. | 29. | 88888. |
| 28 | EE | 7. | 31. | 21. | 88888.0 | 7. | 88888.0 | 28. | 88888. | 88888. | 88888. | 88888. | 11. | 2. | 0. | 11. | 88888. |
| 29 | EE | 8. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 30 | EE | 8. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 31 | EE | 8. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 32 | EE | 8. | 28. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 33 | EE | 9. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 34 | EE | 9. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 35 | EE | 9. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |

ICE STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CPDATA (CREATION DATE = 01/25/78) OCP CLEARINGHOUSE DATA
SUBFILE FF

| CASE-N | CH | MONTH | WEEK | VAR01 | VAR02 | VAR03 | VAR04 | VAR05 | VAR06 | VAR07 | VAR08 | VAR09 | VAR10 | VAR11 | VAR12 | VAR13 | VAR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FF | 1. | 26. | 38. | 88888.0 | 30. | 88888.0 | 136. | 820. | 0. | 2. | 14. | 42. | 4. | 8. | 22. | 64. |
| 2 | FF | 2. | 2. | 37. | 88888.0 | 21. | 88888.0 | 80. | 947. | 0. | 1. | 0. | 24. | 6. | 1. | 21. | 58. |
| 3 | FF | 2. | 9. | 33. | 88888.0 | 22. | 88888.0 | 83. | 822. | 0. | 0. | 0. | 17. | 3. | 0. | 13. | 34. |
| 4 | FF | 2. | 16. | 38. | 88888.0 | 25. | 88888.0 | 62. | 1158. | 0. | 1. | 0. | 14. | 12. | 0. | 18. | 46. |
| 5 | FF | 2. | 23. | 29. | 88888.0 | 22. | 88888.0 | 109. | 1023. | 0. | 0. | 0. | 6. | 8. | 2. | 9. | 27. |
| 6 | FF | 2. | 30. | 37. | 88888.0 | 22. | 88888.0 | 60. | 894. | 0. | 2. | 0. | 10. | 10. | 0. | 16. | 42. |
| 7 | FF | 3. | 6. | 32. | 4.0 | 24. | 23.0 | 68. | 785. | 0. | 0. | 2. | 20. | 7. | 0. | 21. | 53. |
| 8 | FF | 3. | 13. | 33. | 5.0 | 18. | 16.0 | 72. | 821. | 0. | 0. | 1. | 9. | 11. | 0. | 14. | 36. |
| 9 | FF | 3. | 20. | 26. | 4.2 | 12. | 18.0 | 35. | 722. | 0. | 0. | 5. | 5. | 4. | 88888. | 7. | 16. |
| 10 | FF | 3. | 27. | 17. | 5.5 | 10. | 13.0 | 34. | 297. | 0. | 0. | 2. | 13. | 3. | 0. | 10. | 25. |
| 11 | FF | 4. | 4. | 25. | 4.3 | 16. | 29.0 | 61. | 645. | 0. | 0. | 7. | 21. | 15. | 88888. | 11. | 28. |
| 12 | FF | 4. | 11. | 35. | 4.8 | 26. | 31.0 | 94. | 808. | 0. | 0. | 18. | 9. | 4. | 0. | 11. | 30. |
| 13 | FF | 4. | 18. | 29. | 5.2 | 29. | 63.0 | 118. | 773. | 0. | 0. | 6. | 4. | 5. | 88888. | 7. | 18. |
| 14 | FF | 4. | 25. | 22. | 5.1 | 88888. | 20.0 | 88888. | 531. | 0. | 1. | 13. | 15. | 3. | 0. | 13. | 33. |
| 15 | FF | 5. | 1. | 21. | 5.0 | 11. | 36.0 | 30. | 456. | 0. | 1. | 6. | 7. | 2. | 0. | 8. | 19. |
| 16 | FF | 5. | 8. | 27. | 5.0 | 17. | 23.0 | 73. | 582. | 0. | 0. | 8. | 22. | 14. | 2. | 21. | 57. |
| 17 | FF | 5. | 15. | 23. | 4.5 | 18. | 26.0 | 39. | 527. | 0. | 0. | 2. | 10. | 7. | 0. | 13. | 88888. |
| 18 | FF | 5. | 22. | 25. | 4.9 | 13. | 54.0 | 47. | 359. | 0. | 2. | 5. | 5. | 4. | 0. | 8. | 17. |
| 19 | FF | 5. | 29. | 14. | 5.1 | 10. | 36.0 | 40. | 282. | 0. | 1. | 3. | 12. | 0. | 0. | 9. | 24. |
| 20 | FF | 6. | 6. | 34. | 4.2 | 25. | 27.0 | 102. | 976. | 0. | 1. | 8. | 11. | 2. | 2. | 11. | 27. |
| 21 | FF | 6. | 13. | 32. | 5.0 | 24. | 23.0 | 102. | 88888. | 88888. | 88888. | 88888. | 4. | 2. | 88888. | 4. | 10. |
| 22 | FF | 6. | 20. | 35. | 6.6 | 18. | 41.0 | 60. | 859. | 0. | 2. | 5. | 10. | 5. | 88889. | 13. | 32. |
| 23 | FF | 6. | 27. | 41. | 5.7 | 31. | 47.0 | 113. | 940. | 0. | 0. | 1. | 30. | 7. | 0. | 18. | 44. |
| 24 | FF | 7. | 3. | 33. | 5.7 | 22. | 38.0 | 82. | 958. | 0. | 1. | 4. | 5. | 5. | 0. | 8. | 21. |
| 25 | FF | 7. | 10. | 32. | 88888.0 | 21. | 88888.0 | 105. | 461. | 0. | 0. | 7. | 15. | 12. | 0. | 21. | 53. |
| 26 | FF | 7. | 17. | 30. | 7.4 | 20. | 60.0 | 72. | 768. | 0. | 1. | 5. | 7. | 8. | 0. | 10. | 25. |
| 27 | FF | 7. | 24. | 28. | 9.1 | 19. | 40.0 | 71. | 588. | 0. | 0. | 1. | 15. | 6. | 0. | 12. | 33. |
| 28 | FF | 7. | 31. | 25. | 6.7 | 13. | 85.0 | 44. | 88888. | 88888. | 88888. | 88888. | 12. | 5. | 0. | 10. | 88888. |
| 29 | FF | 8. | 7. | 88888. | 8.4 | 88888. | 41.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 30 | FF | 8. | 14. | 88888. | 5.5 | 88888. | 37.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 31 | FF | 8. | 21. | 88888. | 7.0 | 88888. | 40.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 32 | FF | 8. | 28. | 88888. | 9.0 | 88888. | 75.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 33 | FF | 9. | 7. | 88888. | 8.1 | 88888. | 32.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 34 | FF | 9. | 14. | 88888. | 6.1 | 88888. | 34.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 35 | FF | 9. | 21. | 7. | 88888.0 | 107. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
MULTIPLE GG

| CASE-N | CH | MONTH | WEEK | VAR01 | VAR02 | VAR03 | VAR04 | VAR05 | VAR06 | VAR07 | VAR08 | VAR09 | VAR10 | VAR11 | VAR12 | VAR13 | VAR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | GG | 1. | 26. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88889. | 88884. | 8[illegible] |
| 2 | GG | 2. | 2. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 3 | GG | 2. | 9. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 4 | GG | 2. | 16. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 5 | GG | 2. | 23. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 6 | GG | 2. | 30. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 7 | GG | 3. | 6. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 8 | GG | 3. | 13. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 9 | GG | 3. | 20. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 10 | GG | 3. | 27. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 11 | GG | 4. | 4. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 12 | GG | 4. | 11. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 13 | GG | 4. | 18. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 14 | GG | 4. | 25. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 15 | GG | 5. | 1. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 16 | GG | 5. | 8. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 17 | GG | 5. | 15. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 18 | GG | 5. | 22. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 19 | GG | 5. | 29. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 20 | GG | 6. | 6. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 21 | GG | 6. | 13. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 22 | GG | 6. | 20. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 23 | GG | 6. | 27. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 24 | GG | 7. | 3. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 25 | GG | 7. | 10. | 7. | 88888.0 | 3. | 88888.0 | 10. | 8. | 0. | 0. | 0. | 12. | 5. | 0. | 7. | [illegible] |
| 26 | GG | 7. | 17. | 1. | 88888.0 | 88888. | 88888.0 | 88888. | 2. | 0. | 0. | 0. | 4. | 3. | 88888. | 1. | [illegible] |
| 27 | GG | 7. | 24. | 17. | 88888.0 | 88888. | 88888.0 | 88888. | 56. | 0. | 3. | 3. | 6. | 10. | 88888. | 12. | [illegible] |
| 28 | GG | 7. | 31. | 11. | 88888.0 | 3. | 88888.0 | 8. | 88888. | 88888. | 88888. | 88888. | 10. | 5. | 88888. | 8. | 8[illegible] |
| 29 | GG | 8. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 30 | GG | 8. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 31 | GG | 8. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 32 | GG | 8. | 28. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 33 | GG | 9. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 34 | GG | 9. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |
| 35 | GG | 9. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8[illegible] |

:S STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

:LE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
'SFILE HH

| CASE-N | CH | MONTH | WEEK | VAR01 | VAR02 | VAR03 | VAR04 | VAR05 | VAR06 | VAR07 | VAR08 | VAR09 | VAR10 | VAR11 | VAR12 | VAR13 | VAR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HH | 1. | 26. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 2 | HH | 2. | 2. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 3 | HH | 2. | 9. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 4 | HH | 2. | 16. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 5 | HH | 2. | 23. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 6 | HH | 2. | 30. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 7 | HH | 3. | 6. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 8 | HH | 3. | 13. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 9 | HH | 3. | 20. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 10 | HH | 3. | 27. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 11 | HH | 4. | 4. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 12 | HH | 4. | 11. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 13 | HH | 4. | 18. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 14 | HH | 4. | 25. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 15 | HH | 5. | 1. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 16 | HH | 5. | 8. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 17 | HH | 5. | 15. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 18 | HH | 5. | 22. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 19 | HH | 5. | 29. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 20 | HH | 6. | 6. | 15. | 3.1 | 13. | 6.0 | 72. | 123. | 36. | 24. | 6. | 10. | 4. | 0. | 9. | 7. |
| 21 | HH | 6. | 13. | 19. | 88888.0 | 19. | 88888.0 | 86. | 458. | 68. | 30. | 0. | 18. | 3. | 0. | 13. | 10. |
| 22 | HH | 6. | 20. | 12. | 88888.0 | 12. | 88888.0 | 52. | 95. | 55. | 38. | 0. | 13. | 3. | 0. | 8. | 5. |
| 23 | HH | 6. | 27. | 0. | 0.0 | 0. | 0.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 24 | HH | 7. | 3. | 18. | 88888.0 | 15. | 88888.0 | 69. | 181. | 70. | 42. | 3. | 16. | 10. | 0. | 15. | 11. |
| 25 | HH | 7. | 10. | 15. | 88888.0 | 14. | 88888.0 | 87. | 176. | 70. | 31. | 3. | 6. | 2. | 6. | 10. | 11. |
| 26 | HH | 7. | 17. | 12. | 88888.0 | 13. | 88888.0 | 66. | 181. | 51. | 31. | 0. | 2. | 7. | 0. | 6. | 11. |
| 27 | HH | 7. | 24. | 11. | 88888.0 | 9. | 88888.0 | 47. | 189. | 32. | 22. | 1. | 6. | 1. | 0. | 4. | 8. |
| 28 | HH | 7. | 31. | 17. | 88888.0 | 14. | 88888.0 | 47. | 88888. | 88888. | 88888. | 88888. | 9. | 4. | 0. | 9. | 8. |
| 29 | HH | 8. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 30 | HH | 8. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 31 | HH | 8. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 32 | HH | 8. | 28. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 33 | HH | 9. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 34 | HH | 9. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 35 | HH | 9. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |

96

CS STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CPDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
DEFILE II

| CASE-N | CH | MONTH | WEEK | VAR01 | VAR02 | VAR03 | VAR04 | VAR05 | VAR06 | VAR07 | VAR08 | VAR09 | VAR10 | VAR11 | VAR12 | VAR13 | VAR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | II | 1. | 26. | 25. | 88888.0 | 21. | 88888.0 | 86. | 393. | 0. | 33. | 6. | 18. | 9. | 1. | 15. | 22. |
| 2 | II | 2. | 2. | 14. | 88888.0 | 12. | 88888.0 | 66. | 285. | 0. | 17. | 6. | 14. | 6. | 1. | 6. | 41. |
| 3 | II | 2. | 9. | 25. | 88888.0 | 21. | 88888.0 | 148. | 478. | 0. | 30. | 13. | 67. | 23. | 1. | 24. | 151. |
| 4 | II | 2. | 16. | 11. | 88888.0 | 12. | 88888.0 | 75. | 322. | 0. | 13. | 9. | 20. | 19. | 1. | 11. | 63. |
| 5 | II | 2. | 23. | 30. | 88888.0 | 20. | 88888.0 | 76. | 614. | 0. | 24. | 13. | 34. | 9. | 3. | 22. | 178. |
| 6 | II | 2. | 30. | 20. | 2.8 | 26. | 88888.0 | 90. | 486. | 0. | 26. | 6. | 18. | 10. | 0. | 15. | 64. |
| 7 | II | 3. | 6. | 17. | 3.9 | 17. | 88888.0 | 55. | 304. | 0. | 18. | 2. | 4. | 8. | 0. | 8. | 31. |
| 8 | II | 3. | 13. | 15. | 4.6 | 8. | 32.0 | 41. | 169. | 2. | 9. | 6. | 12. | 5. | 0. | 13. | 120. |
| 9 | II | 3. | 20. | 24. | 5.0 | 23. | 36.0 | 51. | 339. | 4. | 25. | 11. | 30. | 7. | 2. | 18. | 44. |
| 10 | II | 3. | 27. | 21. | 88888.0 | 19. | 88888.0 | 94. | 371. | 4. | 28. | 5. | 39. | 22. | 4. | 21. | 93. |
| 11 | II | 4. | 4. | 20. | 88888.0 | 7. | 88888.0 | 71. | 335. | 0. | 22. | 16. | 53. | 10. | 1. | 17. | 17. |
| 12 | II | 4. | 11. | 19. | 88888.0 | 19. | 88888.0 | 72. | 232. | 0. | 7. | 10. | 20. | 7. | 15. | 16. | 8. |
| 13 | II | 4. | 18. | 0. | 0.0 | 0. | 0.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 14 | II | 4. | 25. | 35. | 88888.0 | 21. | 88888.0 | 70. | 380. | 0. | 19. | 24. | 28. | 17. | 4. | 24. | 136. |
| 15 | II | 5. | 1. | 21. | 88888.0 | 5. | 88888.0 | 107. | 568. | 0. | 26. | 11. | 18. | 6. | 1. | 14. | 66. |
| 16 | II | 5. | 8. | 23. | 88888.0 | 10. | 88888.0 | 28. | 261. | 6. | 25. | 5. | 68. | 9. | 4. | 22. | 141. |
| 17 | II | 5. | 15. | 26. | 88888.0 | 22. | 88888.0 | 91. | 1075. | 4. | 17. | 11. | 54. | 24. | 6. | 22. | 88888. |
| 18 | II | 5. | 22. | 22. | 88888.0 | 88888. | 88888.0 | 41. | 200. | 1. | 19. | 15. | 11. | 10. | 5. | 14. | 8. |
| 19 | II | 5. | 29. | 21. | 88888.0 | 10. | 88888.0 | 29. | 225. | 2. | 19. | 9. | 8. | 1. | 88888. | 7. | 18. |
| 20 | II | 6. | 6. | 23. | 88888.0 | 20. | 88888.0 | 58. | 292. | 0. | 32. | 16. | 17. | 9. | 2. | 15. | 63. |
| 21 | II | 6. | 13. | 24. | 88888.0 | 2. | 88888.0 | 26. | 256. | 2. | 32. | 13. | 30. | 3. | 1. | 18. | 82. |
| 22 | II | 6. | 20. | 17. | 88888.0 | 3. | 88888.0 | 28. | 187. | 3. | 21. | 11. | 8. | 6. | 0. | 10. | 21. |
| 23 | II | 6. | 27. | 13. | 88888.0 | 8. | 88888.0 | 27. | 357. | 1. | 8. | 7. | 10. | 1. | 88888. | 8. | 14. |
| 24 | II | 7. | 3. | 10. | 88888.0 | 88888. | 88888.0 | 88888. | 253. | 0. | 2. | 0. | 10. | 7. | 1. | 9. | 88888. |
| 25 | II | 7. | 10. | 19. | 88888.0 | 9. | 88888.0 | 41. | 200. | 1. | 16. | 10. | 9. | 0. | 6. | 11. | 88888. |
| 26 | II | 7. | 17. | 6. | 88888.0 | 2. | 88888.0 | 41. | 118. | 0. | 5. | 7. | 4. | 6. | 0. | 5. | 88888. |
| 27 | II | 7. | 24. | 7. | 88888.0 | 3. | 88888.0 | 27. | 118. | 0. | 5. | 7. | 3. | 12. | 0. | 7. | 88888. |
| 28 | II | 7. | 31. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 29 | II | 8. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 30 | II | 8. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 31 | II | 8. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 32 | II | 8. | 28. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 33 | II | 9. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 34 | II | 9. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 35 | II | 9. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |

CP STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

ILE CHDATA (CREATION DATE = 01/25/78) OCH CLEARINGHOUSE DATA
UBFILE JJ

| CASE-N | CH | MONTH | WEEK | VAR01 | VAR02 | VAR03 | VAR04 | VAR05 | VAR06 | VAR07 | VAR08 | VAR09 | VAR10 | VAR11 | VAR12 | VAR13 | VAR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | JJ | 1. | 26. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 2 | JJ | 2. | 2. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 3 | JJ | 2. | 9. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 4 | JJ | 2. | 16. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 5 | JJ | 2. | 23. | 17. | 88888.0 | 7. | 88888.0 | 25. | 106. | 0. | 5. | 10. | 8. | 1. | 0. | 6. | 12. |
| 6 | JJ | 2. | 30. | 18. | 88888.0 | 88888. | 88888.0 | 88888. | 78. | 0. | 1. | 6. | 14. | 2. | 0. | 9. | 22. |
| 7 | JJ | 3. | 6. | 34. | 88888.0 | 18. | 88888.0 | 40. | 223. | 0. | 18. | 11. | 1. | 3. | 2. | 5. | 19. |
| 8 | JJ | 3. | 13. | 22. | 88888.0 | 5. | 88888.0 | 13. | 88. | 0. | 17. | 7. | 17. | 0. | 0. | 15. | 39. |
| 9 | JJ | 3. | 20. | 25. | 88888.0 | 7. | 88888.0 | 17. | 53. | 0. | 7. | 5. | 13. | 3. | 88888. | 13. | 31. |
| 10 | JJ | 3. | 27. | 20. | 88888.0 | 2. | 88888.0 | 4. | 43. | 0. | 5. | 4. | 14. | 3. | 0. | 11. | 31. |
| 11 | JJ | 4. | 4. | 18. | 88888.0 | 3. | 88888.0 | 8. | 60. | 0. | 7. | 2. | 13. | 88888. | 88888. | 9. | 22. |
| 12 | JJ | 4. | 11. | 21. | 88888.0 | 5. | 88888.0 | 14. | 58. | 0. | 10. | 1. | 17. | 0. | 0. | 9. | 12. |
| 13 | JJ | 4. | 18. | 17. | 88888.0 | 3. | 88888.0 | 6. | 49. | 1. | 5. | 2. | 7. | 15. | 0. | 15. | 39. |
| 14 | JJ | 4. | 25. | 16. | 88888.0 | 3. | 88888.0 | 11. | 52. | 0. | 4. | 4. | 5. | 88888. | 88888. | 4. | 8. |
| 15 | JJ | 5. | 1. | 15. | 88888.0 | 1. | 88888.0 | 6. | 29. | 0. | 6. | 1. | 2. | 2. | 88889. | 4. | 10. |
| 16 | JJ | 5. | 8. | 21. | 88888.0 | 5. | 88888.0 | 19. | 43. | 0. | 6. | 1. | 8. | 3. | 0. | 6. | 88888. |
| 17 | JJ | 5. | 15. | 18. | 88888.0 | 2. | 88888.0 | 6. | 44. | 0. | 8. | 1. | 14. | 2. | 1. | 12. | 88888. |
| 18 | JJ | 5. | 22. | 14. | 88888.0 | 1. | 88888.0 | 3. | 36. | 0. | 4. | 0. | 7. | 1. | 1. | 7. | 17. |
| 19 | JJ | 5. | 29. | 16. | 88888.0 | 3. | 88888.0 | 7. | 42. | 0. | 6. | 0. | 16. | 1. | 0. | 11. | 31. |
| 20 | JJ | 6. | 6. | 19. | 88888.0 | 13. | 88888.0 | 40. | 54. | 0. | 6. | 1. | 2. | 11. | 0. | 10. | 24. |
| 21 | JJ | 6. | 13. | 14. | 88888.0 | 3. | 88888.0 | 8. | 22. | 0. | 4. | 0. | 9. | 0. | 0. | 8. | 19. |
| 22 | JJ | 6. | 20. | 15. | 88888.0 | 2. | 88888.0 | 6. | 29. | 0. | 6. | 1. | 13. | 0. | 0. | 13. | 34. |
| 23 | JJ | 6. | 27. | 33. | 88888.0 | 6. | 88888.0 | 18. | 87. | 0. | 8. | 6. | 16. | 0. | 0. | 11. | 31. |
| 24 | JJ | 7. | 3. | 14. | 88888.0 | 3. | 88888.0 | 9. | 35. | 0. | 1. | 1. | 7. | 3. | 0. | 6. | 16. |
| 25 | JJ | 7. | 10. | 17. | 88888.0 | 4. | 88888.0 | 11. | 37. | 0. | 3. | 2. | 9. | 3. | 0. | 9. | 24. |
| 26 | JJ | 7. | 17. | 10. | 88888.0 | 1. | 88888.0 | 4. | 13. | 0. | 4. | 0. | 5. | 0. | 0. | 5. | 14. |
| 27 | JJ | 7. | 24. | 21. | 88888.0 | 1. | 88888.0 | 3. | 45. | 0. | 4. | 0. | 1. | 23. | 0. | 21. | 88888. |
| 28 | JJ | 7. | 31. | 29. | 88888.0 | 6. | 88888.0 | 24. | 88888. | 88888. | 88888. | 88888. | 27. | 25. | 0. | 29. | 88888. |
| 29 | JJ | 8. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88889. | 88888. | 88888. |
| 30 | JJ | 8. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88886. | 88888. | 88888. |
| 31 | JJ | 8. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88889. | 88888. | 88888. |
| 32 | JJ | 8. | 28. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 33 | JJ | 9. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 34 | JJ | 9. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 35 | JJ | 9. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |

'9 STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

ICE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SFILE KK

| CASE-N | CH | MONTH | WEEK | VAR01 | VAR02 | VAR03 | VAR04 | VAR05 | VAR06 | VAR07 | VAR08 | VAR09 | VAR10 | VAR11 | VAR12 | VAR13 | VAR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | KK | 1. | 26. | 16. | 88888.0 | 7. | 88888.0 | 20. | 209. | 0. | 0. | 0. | 15. | 3. | 0. | 9. | 25. |
| 2 | KK | 2. | 2. | 16. | 88888.0 | 7. | 88888.0 | 24. | 180. | 0. | 0. | 0. | 29. | 2. | 0. | 15. | 49. |
| 3 | KK | 2. | 9. | 16. | 88888.0 | 9. | 88888.0 | 32. | 134. | 0. | 5. | 5. | 32. | 2. | 1. | 14. | 55. |
| 4 | KK | 2. | 16. | 16. | 88888.0 | 13. | 8888..0 | 60. | 108. | 0. | 10. | 5. | 12. | 6. | 0. | 12. | 44. |
| 5 | KK | 2. | 23. | 16. | 88888.0 | 13. | 88888.0 | 39. | 71. | 1. | 6. | 0. | 13. | 1. | 0. | 8. | 28. |
| 6 | KK | 2. | 30. | 16. | 88888.0 | 9. | 88888.0 | 25. | 171. | 0. | 7. | 1. | 27. | 7. | 0. | 12. | 45. |
| 7 | KK | 3. | 6. | 16. | 88888.0 | 11. | 88888.0 | 22. | 74. | 1. | 18. | 3. | 3. | 1. | 0. | 4. | 9. |
| 8 | KK | 3. | 13. | 15. | 2.6 | 12. | 5.0 | 53. | 289. | 0. | 7. | 1. | 20. | 4. | 0. | 10. | 36. |
| 9 | KK | 3. | 20. | 17. | 2.6 | 4. | 88888.0 | 10. | 91. | 0. | 10. | 1. | 12. | 4. | 0. | 13. | 43. |
| 10 | KK | 3. | 27. | 16. | 2.7 | 10. | 88888.0 | 38. | 78. | 4. | 12. | 3. | 16. | 4. | 88888. | 14. | 49. |
| 11 | KK | 4. | 4. | 16. | 2.0 | 4. | 88888.0 | 12. | 116. | 0. | 14. | 4. | 10. | 0. | 0. | 6. | 21. |
| 12 | KK | 4. | 11. | 16. | 2.4 | 8. | 88888.0 | 17. | 61. | 0. | 13. | 4. | 37. | 2. | 0. | 14. | 63. |
| 13 | KK | 4. | 18. | 16. | 3.3 | 10. | 88888.0 | 43. | 7. | 0. | 15. | 8. | 6. | 4. | 0. | 9. | 33. |
| 14 | KK | 4. | 25. | 14. | 2.8 | 7. | 88888.0 | 23. | 46. | 0. | 4. | 1. | 12. | 3. | 1. | 9. | 31. |
| 15 | KK | 5. | 1. | 16. | 1.8 | 8. | 88888.0 | 38. | 137. | 0. | 14. | 6. | 7. | 2. | 88888. | 6. | 19. |
| 16 | KK | 5. | 8. | 16. | 4.3 | 9. | 11.0 | 31. | 23. | 0. | 13. | 0. | 5. | 3. | 0. | 7. | 24. |
| 17 | KK | 5. | 15. | 16. | 2.7 | 4. | 12.0 | 14. | 52. | 0. | 3. | 0. | 8. | 3. | 2. | 9. | 88888. |
| 18 | KK | 5. | 22. | 13. | 88888.0 | 2. | 88888.0 | 16. | 56. | 0. | 8. | 2. | 4. | 3. | 2. | 9. | 31. |
| 19 | KK | 5. | 29. | 10. | 1.7 | 2. | 88888.0 | 8. | 158. | 0. | 5. | 0. | 5. | 4. | 0. | 6. | 17. |
| 20 | KK | 6. | 6. | 19. | 5.1 | 7. | 88888.0 | 37. | 133. | 0. | 10. | 1. | 6. | 3. | 88888. | 9. | 32. |
| 21 | KK | 6. | 13. | 16. | 2.9 | 8. | 16.0 | 42. | 106. | 0. | 8. | 3. | 7. | 5. | 0. | 7. | 24. |
| 22 | KK | 6. | 20. | 16. | 88888.0 | 4. | 88888.0 | 18. | 102. | 0. | 4. | 2. | 5. | 2. | 88888. | 7. | 24. |
| 23 | KK | 6. | 27. | 0. | 0.0 | 0. | 0.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 24 | KK | 7. | 3. | 25. | 88888.0 | 10. | 88888.0 | 41. | 177. | 0. | 13. | 0. | 35. | 5. | 6. | 21. | 88888. |
| 25 | KK | 7. | 10. | 23. | 88888.0 | 5. | 88888.0 | 42. | 103. | 0. | 6. | 3. | 21. | 10. | 11. | 21. | 111. |
| 26 | KK | 7. | 17. | 16. | 6.4 | 10. | 88888.0 | 27. | 78. | 0. | 6. | 2. | 15. | 3. | 0. | 11. | 88888. |
| 27 | KK | 7. | 24. | 16. | 4.0 | 3. | 88888.0 | 15. | 62. | 0. | 7. | 3. | 25. | 10. | 1. | 16. | 88888. |
| 28 | KK | 7. | 31. | 16. | 4.0 | 1. | 8.5 | 12. | 88888. | 88888. | 88888. | 88888. | 9. | 88888. | 88888. | 88888. | 88888. |
| 29 | KK | 8. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 30 | KK | 8. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 31 | KK | 8. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 32 | KK | 8. | 28. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 33 | KK | 9. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 34 | KK | 9. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 35 | KK | 9. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |

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CE STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SPFILE LL

| CASE-N | CH | MONTH | WEEK | VAR01 | VAR02 | VAR03 | VAR04 | VAR05 | VAR06 | VAR07 | VAR08 | VAR09 | VAR10 | VAR11 | VAR12 | VAR13 | VAR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LL | 1. | 26. | 55. | 88888.0 | 35. | 88888.0 | 152. | 402. | 0. | 25. | 5. | 83. | 5. | 2. | 51. | 151. |
| 2 | LL | 2. | 2. | 49. | 88888.0 | 18. | 88888.0 | 69. | 283. | 0. | 22. | 12. | 7. | 0. | 0. | 48. | 1[illegible] |
| 3 | LL | 2. | 9. | 20. | 88888.0 | 15. | 88888.0 | 73. | 177. | 0. | 7. | 1. | 38. | 4. | 0. | 20. | [illegible] |
| 4 | LL | 2. | 16. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8888[illegible] |
| 5 | LL | 2. | 23. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 8888[illegible] |
| 6 | LL | 2. | 30. | 20. | 88888.0 | 15. | 88888.0 | 53. | 76. | 0. | 11. | 7. | 57. | 7. | 2. | 27. | 1[illegible] |
| 7 | LL | 3. | 6. | 40. | 88888.0 | 25. | 88888.0 | 102. | 117. | 0. | 17. | 9. | 54. | 7. | 13. | 30. | 1[illegible] |
| 8 | LL | 3. | 13. | 35. | 88888.0 | 29. | 88888.0 | 154. | 254. | 0. | 23. | 23. | 41. | 14. | 0. | 29. | 1[illegible] |
| 9 | LL | 3. | 20. | 43. | 88888.0 | 37. | 88888.0 | 140. | 512. | 0. | 9. | 11. | 31. | 6. | 88888. | 23. | [illegible] |
| 10 | LL | 3. | 27. | 0. | 0.0 | 0. | 0.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 5. | [illegible] |
| 11 | LL | 4. | 4. | 24. | 88888.0 | 26. | 88888.0 | 76. | 62. | 1. | 3. | 4. | 35. | 14. | 1. | 19. | [illegible] |
| 12 | LL | 4. | 11. | 24. | 88888.0 | 17. | 88888.0 | 56. | 56. | 1. | 2. | 1. | 28. | 5. | 0. | 18. | [illegible] |
| 13 | LL | 4. | 18. | 25. | 88888.0 | 13. | 88888.0 | 68. | 57. | 1. | 0. | 10. | 22. | 9. | 2. | 19. | 1[illegible] |
| 14 | LL | 4. | 25. | 27. | 88888.0 | 25. | 88888.0 | 93. | 19. | 5. | 4. | 4. | 26. | 2. | 3. | 15. | [illegible] |
| 15 | LL | 5. | 1. | 26. | 88888.0 | 26. | 88888.0 | 140. | 74. | 6. | 5. | 3. | 32. | 4. | 0. | 24. | [illegible] |
| 16 | LL | 5. | 8. | 27. | 88888.0 | 15. | 88888.0 | 57. | 69. | 5. | [illegible] | 4. | 39. | 11. | 1. | 23. | 1[illegible] |
| 17 | LL | 5. | 15. | 37. | 88888.0 | 37. | 88888.0 | 150. | 22. | 3. | 4. | 4. | 66. | 10. | 1. | 31. | [illegible] |
| 18 | LL | 5. | 22. | 52. | 88888.0 | 28. | 88888.0 | 105. | 71. | 7. | 8. | 3. | 76. | 22. | 7. | 45. | 1[illegible] |
| 19 | LL | 5. | 29. | 0. | 0.0 | 0. | 0.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | [illegible] |
| 20 | LL | 6. | 6. | 37. | 88888.0 | 35. | 88888.0 | 150. | 80. | 8. | 8. | 6. | 49. | 8. | 3. | 30. | [illegible] |
| 21 | LL | 6. | 13. | 37. | 88888.0 | 37. | 88888.0 | 139. | 88888. | 88888. | 88888. | 88888. | 52. | 13. | 3. | 26. | 1[illegible] |
| 22 | LL | 6. | 20. | 77. | 88888.0 | 50. | 88888.0 | 233. | 90. | 6. | 21. | 19. | 70. | 17. | 3. | 53. | 1[illegible] |
| 23 | LL | 6. | 27. | 0. | 0.0 | 0. | 0.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | [illegible] |
| 24 | LL | 7. | 3. | 48. | 88888.0 | 32. | 88888.0 | 116. | 98. | 8. | 9. | 5. | 63. | 19. | 1. | 37. | 1[illegible] |
| 25 | LL | 7. | 10. | 44. | 88888.0 | 43. | 88888.0 | 171. | 7. | 25. | 15. | 5. | 57. | 7. | 88888. | 31. | 1[illegible] |
| 26 | LL | 7. | 17. | 30. | 88888.0 | 25. | 88888.0 | 103. | 64. | 20. | 22. | 5. | 49. | 13. | 0. | 25. | [illegible] |
| 27 | LL | 7. | 24. | 45. | 88888.0 | 40. | 88888.0 | 155. | 200. | 49. | 35. | 8. | 49. | 7. | 2. | 24. | 8[illegible] |
| 28 | LL | 7. | 31. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 29 | LL | 8. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 30 | LL | 8. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 31 | LL | 8. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 32 | LL | 8. | 28. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 33 | LL | 9. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 34 | LL | 9. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 35 | LL | 9. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |

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STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

2 CHDATA (CREATION DATE = 01/25/78) OCP CLEARINGHOUSE DATA
FILE NH

| CASE-N | CH | MONTH | WEEK | VAR01 | VAR02 | VAR03 | VAR04 | VAR05 | VAR06 | VAR07 | VAR08 | VAR09 | VAR10 | VAR11 | VAR12 | VAR13 | VAR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | NH | 1. | 26. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 2 | NH | 2. | 2. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 3 | NH | 2. | 9. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 4 | NH | 2. | 16. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 5 | NH | 2. | 23. | 88888. | 88888.0 | 88888. | 88888.0 | 57. | 265. | 0. | 3. | 3. | 20. | 88888. | 88888. | 88888. | 88888. |
| 6 | NH | 2. | 30. | 14. | 6.7 | 14. | 88888.0 | 56. | 367. | 0. | 3. | 2. | 15. | 12. | 2. | 13. | 88888. |
| 7 | NH | 3. | 6. | 14. | 7.6 | 15. | 19.0 | 41. | 379. | 0. | 0. | 2. | 25. | 17. | 88888. | 12. | 11. |
| 8 | NH | 3. | 13. | 13. | 88888.0 | 10. | 88888.0 | 30. | 289. | 0. | 2. | 2. | 16. | 12. | 0. | 16. | 16. |
| 9 | NH | 3. | 20. | 14. | 4.9 | 10. | 24.0 | 49. | 618. | 0. | 1. | 7. | 18. | 2. | 0. | 0. | 0. |
| 10 | NH | 3. | 27. | 20. | 88888.0 | 15. | 88888.0 | 0. | 0. | 0. | 0. | 0. | 0. | 20. | 0. | 15. | 47. |
| 11 | NH | 4. | 4. | 0. | 0.0 | 0. | 0.0 | 57. | 294. | 0. | 0. | 1. | 12. | 13. | 0. | 13. | 33. |
| 12 | NH | 4. | 11. | 20. | 7.1 | 16. | 24.0 | 23. | 363. | 0. | 0. | 4. | 17. | 3. | 88886. | 13. | 37. |
| 13 | NH | 4. | 18. | 20. | 5.4 | 7. | 88888.0 | 55. | 373. | 0. | 1. | 7. | 13. | 9. | 0. | 10. | 88. |
| 14 | NH | 4. | 25. | 20. | 5.0 | 12. | 88888.0 | 33. | 291. | 0. | 4. | 6. | 20. | 10. | 2. | 16. | 7. |
| 15 | NH | 5. | 1. | 20. | 4.4 | 8. | 9.6 | 40. | 295. | 0. | 3. | 14. | 21. | 8. | 1. | 13. | 11. |
| 16 | NH | 5. | 8. | 20. | 2.9 | 10. | 88888.0 | 42. | 240. | 0. | 3. | 11. | 27. | 20. | 88886. | 10. | 110. |
| 17 | NH | 5. | 15. | 20. | 5.6 | 10. | 20.0 | 29. | 326. | 0. | 5. | 10. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 18 | NH | 5. | 22. | 15. | 88888.0 | 8. | 88888.0 | 60. | 353. | 0. | 0. | 16. | 19. | 88888. | 0. | 11. | 37. |
| 19 | NH | 5. | 29. | 15. | 88888.0 | 12. | 88888.0 | 36. | 121. | 0. | 3. | 5. | 6. | 4. | 1. | 7. | 4. |
| 20 | NH | 6. | 6. | 10. | 88888.0 | 7. | 88888.0 | 43. | 185. | 0. | 0. | 7. | 11. | 6. | 88888. | 9. | 41. |
| 21 | NH | 6. | 13. | 10. | 88888.0 | 8. | 88888.0 | 29. | 125. | 1. | 1. | 5. | 10. | 8. | 0. | 8. | 24. |
| 22 | NH | 6. | 20. | 10. | 4.3 | 6. | 18.0 | 17. | 88. | 0. | 2. | 6. | 1. | 5. | 0. | 2. | 0. |
| 23 | NH | 6. | 27. | 10. | 5.7 | 5. | 15.0 | 35. | 115. | 0. | 0. | 9. | 8. | 2. | 0. | 0. | 0. |
| 24 | NH | 7. | 3. | 10. | 6.0 | 8. | 32.0 | 56. | 271. | 0. | 2. | 9. | 6. | 6. | 1. | 9. | 0. |
| 25 | NH | 7. | 10. | 12. | 88888.0 | 10. | 88888.0 | 52. | 219. | 0. | 6. | 12. | 8. | 9. | 88888. | 13. | 0. |
| 26 | NH | 7. | 17. | 15. | 88888.0 | 13. | 88888.0 | 45. | 251. | 0. | 5. | 11. | 5. | 13. | 0. | 0. | 13. |
| 27 | NH | 7. | 24. | 15. | 88888.0 | 10. | 88888.0 | 57. | 88888. | 88888. | 88888. | 88888. | 14. | 88888. | 88888. | 88888. | 88888. |
| 28 | NH | 7. | 31. | 18. | 88888.0 | 13. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 29 | NH | 8. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 85853. |
| 30 | NH | 8. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 31 | NH | 8. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 32 | NH | 8. | 28. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 33 | NH | 9. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 34 | NH | 9. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 35 | NH | 9. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |

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STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

LE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
FILE NN

| CASE-N | CH | MONTH | WEEK | VAR01 | VAR02 | VAR03 | VAR04 | VAR05 | VAR06 | VAR07 | VAR08 | VAR09 | VAR10 | VAR11 | VAR12 | VAR13 | VAR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | NN | 1. | 26. | 11. | 88888.0 | 7. | 88888.0 | 31. | 178. | 0. | 7. | 11. | 24. | 0. | 2. | 8. | 46. |
| 2 | NN | 2. | 2. | 17. | 88888.0 | 9. | 88888.0 | 39. | 188. | 0. | 3. | 15. | 17. | 2. | 1. | 12. | 36. |
| 3 | NN | 2. | 9. | 23. | 88888.0 | 7. | 88888.0 | 44. | 180. | 0. | 1. | 5. | 13. | 7. | 0. | 11. | 44. |
| 4 | NN | 2. | 16. | 10. | 88888.0 | 1. | 88888.0 | 3. | 118. | 0. | 5. | 2. | 9. | 0. | 0. | 7. | 17. |
| 5 | NN | 2. | 23. | 14. | 88888.0 | 6. | 88888.0 | 16. | 317. | 0. | 3. | 3. | 13. | 2. | 0. | 8. | 24. |
| 6 | NN | 2. | 30. | 14. | 4.5 | 6. | 34.0 | 14. | 102. | 0. | 1. | 11. | 14. | 6. | 0. | 9. | 63. |
| 7 | NN | 3. | 6. | 7. | 5.2 | 4. | 40.0 | 13. | 200. | 0. | 2. | 8. | 9. | 3. | 0. | 5. | 24. |
| 8 | NN | 3. | 13. | 13. | 6.0 | 8. | 42.0 | 26. | 154. | 0. | 0. | 6. | 17. | 2. | 0. | 11. | 144. |
| 9 | NN | 3. | 20. | 12. | 6.4 | 7. | 88888.0 | 16. | 203. | 0. | 7. | 3. | 20. | 1. | 88888. | 9. | 35. |
| 10 | NN | 3. | 27. | 11. | 5.8 | 3. | 88888.0 | 7. | 158. | 0. | 7. | 5. | 8. | 6. | 0. | 8. | 28. |
| 11 | NN | 4. | 4. | 12. | 7.5 | 2. | 48.0 | 3. | 212. | 0. | 4. | 6. | 10. | 3. | 0. | 7. | 144. |
| 12 | NN | 4. | 11. | 10. | 7.0 | 4. | 18.0 | 13. | 192. | 0. | 8. | 2. | 9. | 3. | 1. | 7. | 144. |
| 13 | NN | 4. | 18. | 14. | 6.7 | 3. | 20.0 | 10. | 193. | 0. | 8. | 1. | 13. | 0. | 0. | 9. | 144. |
| 14 | NN | 4. | 25. | 7. | 6.2 | 5. | 60.0 | 14. | 280. | 0. | 5. | 8. | 12. | 4. | 0. | 5. | 144. |
| 15 | NN | 5. | 1. | 17. | 4.6 | 5. | 13.0 | 21. | 386. | 0. | 10. | 3. | 28. | 10. | 0. | 15. | 48. |
| 16 | NN | 5. | 8. | 29. | 88888.0 | 17. | 88888.0 | 71. | 48. | 0. | 23. | 14. | 2. | 10. | 1. | 12. | 36. |
| 17 | NN | 5. | 15. | 4. | 88888.0 | 2. | 88888.0 | 4. | 19. | 0. | 1. | 1. | 2. | 15. | 0. | 2. | 864. |
| 18 | NN | 5. | 22. | 15. | 88888.0 | 7. | 88888.0 | 27. | 254. | 0. | 0. | 0. | 7. | 0. | 0. | 11. | 132. |
| 19 | NN | 5. | 29. | 5. | 88888.0 | 3. | 88888.0 | 9. | 83. | 0. | 3. | 0. | 0. | 7. | 0. | 4. | 12. |
| 20 | NN | 6. | 6. | 13. | 4.6 | 8. | 48.0 | 39. | 342. | 0. | 0. | 0. | 5. | 3. | 0. | 11. | 60. |
| 21 | NN | 6. | 13. | 6. | 4.0 | 2. | 40.0 | 11. | 107. | 0. | 0. | 0. | 4. | 0. | 0. | 4. | 12. |
| 22 | NN | 6. | 20. | 2. | 4.0 | 1. | 88888.0 | 2. | 54. | 0. | 0. | 0. | 1. | 2. | 88888. | 0. | 888888. |
| 23 | NN | 6. | 27. | 6. | 88888.0 | 1. | 88888.0 | 18. | 53. | 0. | 0. | 0. | 2. | 12. | 88888. | 6. | 24. |
| 24 | NN | 7. | 3. | 11. | 4.9 | 3. | 25.0 | 21. | 148. | 0. | 1. | 1. | 4. | 14. | 88888. | 10. | 12. |
| 25 | NN | 7. | 10. | 6. | 4.9 | 5. | 36.0 | 8. | 77. | 0. | 1. | 1. | 4. | 3. | 1. | 3. | 12. |
| 26 | NN | 7. | 17. | 8. | 5.6 | 2. | 48.0 | 18. | 124. | 0. | 0. | 4. | 0. | 1. | 1. | 5. | 12. |
| 27 | NN | 7. | 24. | 26. | 3.4 | 4. | 45.0 | 60. | 467. | 0. | 4. | 88888. | 12. | 2. | 0. | 21. | 888888. |
| 28 | NN | 7. | 31. | 22. | 4.2 | 14. | 27.0 | 45. | 88888. | 88888. | 88888. | 88888. | 45. | 7. | 1. | 18. | 888888. |
| 29 | NN | 8. | 7. | 88888. | 4.9 | 88888. | 42.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 34. | 11. | 88888. | 88888. | 888888. |
| 30 | NN | 8. | 14. | 88888. | 4.1 | 88888. | 37.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 888888. |
| 31 | NN | 8. | 21. | 88888. | 5.6 | 88888. | 60.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 888888. |
| 32 | NN | 8. | 28. | 88888. | 4.8 | 88888. | 21.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 888888. |
| 33 | NN | 9. | 7. | 88888. | 7.0 | 88888. | 24.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 888888. |
| 34 | NN | 9. | 14. | 88888. | 9.9 | 88888. | 36.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 888888. |
| 35 | NN | 9. | 21. | 88888. | 5.1 | 88888. | 36.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 888888. |

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R STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

IE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
FILE 00

| CASE-N | CH | MONTH | WEEK | VAR01 | VAR02 | VAR03 | VAR04 | VAR05 | VAR06 | VAR07 | VAR08 | VAR09 | VAR10 | VAR11 | VAR12 | VAR13 | VAR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00 | 1. | 26. | 8. | 88888.0 | 11. | 88888.0 | 56. | 26. | 0. | 0. | 1. | 6. | 4. | 4. | 7. | 23. |
| 2 | 00 | 2. | 2. | 14. | 88888.0 | 11. | 88888.0 | 39. | 217. | 2. | 12. | 7. | 21. | 9. | 0. | 10. | 52. |
| 3 | 00 | 2. | 9. | 9. | 88888.0 | 11. | 88888.0 | 50. | 113. | 1. | 6. | 3. | 10. | 2. | 3. | 7. | 27. |
| 4 | 00 | 2. | 16. | 15. | 88888.0 | 10. | 88888.0 | 30. | 197. | 1. | 7. | 1. | 21. | 5. | 2. | 11. | 47. |
| 5 | 00 | 2. | 23. | 14. | 88888.0 | 11. | 88888.0 | 39. | 158. | 0. | 3. | 4. | 21. | 2. | 0. | 10. | 41. |
| 6 | 00 | 2. | 30. | 19. | 88888.0 | 18. | 88888.0 | 64. | 226. | 2. | 0. | 7. | 10. | 0. | 1. | 10. | 26. |
| 7 | 00 | 3. | 6. | 12. | 88888.0 | 13. | 88888.0 | 49. | 189. | 1. | 1. | 6. | 13. | 3. | 0. | 10. | 3. |
| 8 | 00 | 3. | 13. | 14. | 88888.0 | 13. | 88888.0 | 74. | 194. | 3. | 1. | 6. | 8. | 6. | 1. | 7. | 23. |
| 9 | 00 | 3. | 20. | 14. | 88888.0 | 11. | 88888.0 | 38. | 246. | 7. | 4. | 2. | 20. | 2. | 0. | 12. | 34. |
| 10 | 00 | 3. | 27. | 14. | 88888.0 | 14. | 88888.0 | 48. | 146. | 3. | 5. | 2. | 10. | 2. | 88888. | 9. | 23. |
| 11 | 00 | 4. | 4. | 8. | 88888.0 | 6. | 88888.0 | 21. | 243. | 2. | 2. | 8. | 3. | 1. | 88888. | 3. | 7. |
| 12 | 00 | 4. | 11. | 16. | 88888.0 | 14. | 88888.0 | 78. | 232. | 9. | 9. | 7. | 15. | 3. | 1. | 12. | 26. |
| 13 | 00 | 4. | 18. | 13. | 88888.0 | 10. | 88888.0 | 38. | 88. | 20. | 8. | 8. | 15. | 7. | 0. | 10. | 41. |
| 14 | 00 | 4. | 25. | 20. | 88888.0 | 20. | 88888.0 | 84. | 343. | 43. | 12. | 11. | 8. | 5. | 3. | 10. | 53. |
| 15 | 00 | 5. | 1. | 18. | 88888.0 | 23. | 88888.0 | 104. | 230. | 19. | 16. | 7. | 26. | 4. | 1. | 16. | 55. |
| 16 | 00 | 5. | 8. | 17. | 88888.0 | 14. | 88888.0 | 55. | 202. | 31. | 5. | 2. | 15. | 6. | 0. | 12. | 54. |
| 17 | 00 | 5. | 15. | 18. | 88888.0 | 17. | 88888.0 | 68. | 266. | 28. | 9. | 2. | 12. | 9. | 0. | 13. | 88888. |
| 18 | 00 | 5. | 22. | 15. | 88888.0 | 13. | 88888.0 | 61. | 141. | 6. | 7. | 14. | 4. | 7. | 0. | 6. | 41. |
| 19 | 00 | 5. | 29. | 10. | 88888.0 | 7. | 88888.0 | 29. | 197. | 2. | 7. | 3. | 7. | 6. | 0. | 8. | 18. |
| 20 | 00 | 6. | 6. | 5. | 88888.0 | 4. | 88888.0 | 23. | 169. | 3. | 5. | 3. | 5. | 1. | 0. | 4. | 17. |
| 21 | 00 | 6. | 13. | 2. | 88888.0 | 2. | 88888.0 | 7. | 32. | 0. | 2. | 0. | 88888. | 88888. | 88888. | 2. | 4. |
| 22 | 00 | 6. | 20. | 0. | 0.0 | 0. | 0.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 23 | 00 | 6. | 27. | 0. | 0.0 | 0. | 0.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 24 | 00 | 7. | 3. | 10. | 88888.0 | 9. | 88888.0 | 72. | 170. | 2. | 11. | 5. | 6. | 5. | 1. | 7. | 22. |
| 25 | 00 | 7. | 10. | 10. | 88888.0 | 8. | 88888.0 | 35. | 135. | 2. | 5. | 1. | 6. | 5. | 2. | 9. | 24. |
| 26 | 00 | 7. | 17. | 10. | 88888.0 | 9. | 88888.0 | 45. | 174. | 6. | 7. | 3. | 11. | 6. | 0. | 8. | 24. |
| 27 | 00 | 7. | 24. | 11. | 88888.0 | 10. | 88888.0 | 41. | 162. | 7. | 11. | 2. | 6. | 2. | 0. | 5. | 88888. |
| 28 | 00 | 7. | 31. | 10. | 88888.0 | 36. | 88888.0 | 112. | 88888. | 88888. | 88888. | 88888. | 22. | 3. | 2. | 10. | 88888. |
| 29 | 00 | 8. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 30 | 00 | 8. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 31 | 00 | 8. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 32 | 00 | 8. | 28. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 33 | 00 | 9. | 7. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 34 | 00 | 9. | 14. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 35 | 00 | 9. | 21. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |

CR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

ILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
UPFILE PP

| CASE-N | CH | MONTH | WEEK | VAR01 | VAR02 | VAR03 | VAR04 | VAR05 | VAR06 | VAR07 | VAR08 | VAR09 | VAR10 | VAR11 | VAR12 | VAR13 | VAR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PP | 1. | 26. | 88888. | 88888.0 | 88888. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 2 | PP | 2. | 2. | 15. | 88888.0 | 11. | 88888.0 | 38. | 68. | 9. | 7. | 1. | 88888. | 88888. | 88888. | 88888. | 88888. |
| 3 | PP | 2. | 9. | 15. | 88888.0 | 10. | 88888.0 | 32. | 65. | 4. | 8. | 1. | 45. | 3. | 4. | 21. | [illegible] |
| 4 | PP | 2. | 16. | 15. | 88888.0 | 6. | 88888.0 | 13. | 31. | 7. | 6. | 1. | 29. | 2. | 0. | 12. | [illegible] |
| 5 | PP | 2. | 23. | 15. | 88888.0 | 9. | 88888.0 | 27. | 76. | 15. | 14. | 0. | 7. | 1. | 0. | 5. | [illegible] |
| 6 | PP | 2. | 30. | 14. | 88888.0 | 6. | 88888.0 | 17. | 93. | 0. | 12. | 1. | 20. | 2. | 3. | 11. | [illegible] |
| 7 | PP | 3. | 6. | 14. | 5.0 | 8. | 88888.0 | 18. | 65. | 6. | 18. | 6. | 8. | 0. | 1. | 7. | [illegible] |
| 8 | PP | 3. | 13. | 14. | 6.7 | 8. | 88888.0 | 29. | 63. | 3. | 14. | 6. | 6. | 0. | 0. | 6. | [illegible] |
| 9 | PP | 3. | 20. | 14. | 3.7 | 7. | 88888.0 | 22. | 76. | 2. | 23. | 7. | 10. | 3. | 0. | 9. | [illegible] |
| 10 | PP | 3. | 27. | 15. | 4.9 | 8. | 88888.0 | 18. | 60. | 0. | 11. | 3. | 13. | 19. | 0. | 15. | [illegible] |
| 11 | PP | 4. | 4. | 15. | 3.2 | 7. | 88888.0 | 23. | 59. | 1. | 17. | 5. | 13. | 5. | [illegible] | 11. | [illegible] |
| 12 | PP | 4. | 11. | 15. | 7.8 | 13. | 88888.0 | 44. | 81. | 4. | 13. | 4. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 13 | PP | 4. | 18. | 15. | 4.6 | 7. | 88888.0 | 20. | 44. | 28. | 1[illegible] | 2. | 25. | 3. | 0. | 13. | [illegible] |
| 14 | PP | 4. | 25. | 15. | 3.8 | 7. | 88888.0 | 21. | 6. | 29. | 19. | 1. | 11. | 88888. | 88888. | 8. | [illegible] |
| 15 | PP | 5. | 1. | 15. | 3.7 | 11. | 88888.0 | 37. | 83. | 13. | 11. | 2. | 18. | 1. | 88888. | 11. | [illegible] |
| 16 | PP | 5. | 8. | 15. | 3.3 | 11. | 88888.0 | 38. | 34. | 34. | 15. | 3. | 19. | 3. | 1. | 11. | [illegible] |
| 17 | PP | 5. | 15. | 15. | 4.0 | 13. | 88888.0 | 52. | 41. | 31. | 14. | 7. | 11. | 7. | 0. | 10. | [illegible] |
| 18 | PP | 5. | 22. | 15. | 4.4 | 7. | 88888.0 | 21. | 64. | 8. | 11. | 2. | 8. | 1. | 0. | 7. | [illegible] |
| 19 | PP | 5. | 29. | 15. | 6.9 | 9. | 88888.0 | 38. | 54. | 4. | 11. | 2. | 10. | 2. | 88888. | 10. | [illegible] |
| 20 | PP | 6. | 6. | 15. | 2.1 | 9. | 88888.0 | 35. | 32. | 19. | 8. | 2. | 7. | 3. | 0. | 6. | [illegible] |
| 21 | PP | 6. | 13. | 15. | 2.9 | 12. | 88888.0 | 40. | 25. | 20. | 9. | 4. | 14. | 1. | 0. | 10. | [illegible] |
| 22 | PP | 6. | 20. | 15. | 88888.0 | 6. | 88888.0 | 22. | 54. | 16. | 9. | 5. | 21. | 4. | 0. | 12. | [illegible] |
| 23 | PP | 6. | 27. | 15. | 2.3 | 5. | 88888.0 | 17. | 51. | 0. | 10. | 1. | 8. | 1. | 88888. | 6. | [illegible] |
| 24 | PP | 7. | 3. | 15. | 5.0 | 8. | 88888.0 | 26. | 42. | 6. | 7. | 3. | 9. | 2. | 0. | 9. | [illegible] |
| 25 | PP | 7. | 10. | 15. | 4.3 | 11. | 88888.0 | 46. | 25. | 5. | 10. | 10. | 4. | 2. | 2. | 7. | [illegible] |
| 26 | PP | 7. | 17. | 15. | 88888.0 | 8. | 88888.0 | 28. | 57. | 8. | 12. | 5. | 9. | 1. | 0. | 6. | [illegible] |
| 27 | PP | 7. | 24. | 15. | 3.0 | 10. | 88888.0 | 45. | 71. | 15. | 11. | 6. | 3. | 0. | 1. | 4. | [illegible] |
| 28 | PP | 7. | 31. | 15. | 2.5 | 12. | 11.0 | 57. | 88888. | 88888. | 88888. | 88888. | 8. | 3. | 88888. | 8. | [illegible] |
| 29 | PP | 8. | 7. | 88888. | 2.0 | 88888. | 13.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 30 | PP | 8. | 14. | 88888. | 2.1 | 88888. | 20.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 31 | PP | 8. | 21. | 88888. | 2.5 | 88888. | 24.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 32 | PP | 8. | 28. | 88888. | 88888.0 | 88888. | 10.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 33 | PP | 9. | 7. | 88888. | 1.9 | 88888. | 12.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 34 | PP | 9. | 14. | 88888. | 3.0 | 88888. | 24.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |
| 35 | PP | 9. | 21. | 88888. | 88888.0 | 24. | 88888.0 | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | 88888. | [illegible] |

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# APPENDIX C

## DATA NORMALIZED PER DOCUMENT RESUME

APPENDIX C

DATA NORMALIZED PER DOCUMENT RESUME

NOTE: The data presented in this Appendix have been calculated by dividing each of the data elements VA005 through VAR14 (see Appendix A) by VA001. The first sheet presents the data aggregated over the 16 Clearinghouses. Each following sheet presents the same data for an individual Clearinghouse.

| DATA ELEMENT | WEEK STARTING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1976 | | | | | | | | | | | | | | | | | | | | | | 1977 | | | | | | | | | | | | |
| | July | August | | | | | September | | | | October | | | | November | | | | | December | | | | January | | | | | February | | | | March | | |
| | 26 | 2 | 9 | 16 | 23 | 30 | 6 | 13 | 20 | 27 | 4 | 11 | 18 | 25 | 1 | 8 | 15 | 22 | 29 | 6 | 13 | 20 | 27 | 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | 7 | 14 | 21 |
| 1. Number of Document Resumes Keyed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Number of Document Resumes Keyed per hour | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. Number of Document Resumes Corrected by Clearinghouses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. Number of Document Resumes Corrected by Clearinghouses per hour | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. Number of Correction Lines Keyed by Clearinghouse (VA005) | 22.69 | 22.30 | 11.30 | 21.0 | 26.25 | 30.76 | 23.91 | 37.49 | 20.27 | 24.19 | 24.73 | 25.36 | 25.57 | 27.96 | 27.50 | 29.58 | 26.90 | 25.73 | 20.06 | 46.61 | 29.15 | 25.59 | 29.45 | 25.23 | 27.66 | 27.65 | 30.22 | 31.19 | --- | --- | --- | --- | --- | --- | --- |
| 6. Number of Character Erasures (Blobs) (VA006) | 102.1 | 126.0 | 137.4 | 142.0 | 172.9 | 167.7 | 145.56 | 172.63 | 125.65 | 190.35 | 167.2 | 159.45 | 170.14 | 178.5 | 176.13 | 152.05 | 166.72 | 155.27 | 183.23 | 177.71 | 153.41 | 157.96 | 121.79 | 155.25 | 140.07 | 168.23 | 166.79 | --- | --- | --- | --- | --- | --- | --- | --- |
| 7. Number of Character Deletions (Hooks) (VA007) | 0 | 0.74 | 0.37 | 0.52 | 1.06 | 0.21 | 0.52 | 0.56 | 0.21 | 0.65 | 0.26 | 0.27 | 3.50 | 4.2 | 2.15 | 4.64 | 3.56 | 1.11 | 0.56 | 4.42 | 5.19 | 5.99 | 0.82 | 4.66 | 6.05 | 5.92 | 5.61 | --- | --- | --- | --- | --- | --- | --- | --- |
| 8. Number of Word Deletions (Double Hooks) (VA008) | 2.34 | 1.95 | 5.57 | 6.12 | 6.27 | 6.91 | 6.19 | 7.20 | 9.31 | 8.38 | 7.07 | 7.17 | 7.50 | 7.29 | 8.32 | 8.29 | 5.94 | 7.70 | 6.38 | 7.52 | 6.60 | 5.72 | 2.17 | 6.59 | 6.54 | 7.91 | 7.70 | --- | --- | --- | --- | --- | --- | --- | --- |
| 9. Number of Line Deletions (Triple Hooks) (VA009) | 2.26 | 2.59 | 3.63 | 3.62 | 3.69 | 3.29 | 3.94 | 4.22 | 3.17 | 3.95 | 4.56 | 4.08 | 3.83 | 5.11 | 3.83 | 3.63 | 3.23 | 4.20 | 3.49 | 5.10 | 3.01 | 4.62 | 2.54 | 3.91 | 3.52 | 4.20 | 3.79 | --- | --- | --- | --- | --- | --- | --- | --- |
| 10. Number of Content Errors Found on OCR Forms by Editors (VA010) | 9.92 | 10.25 | 15.75 | 17.26 | 12.12 | 14.71 | 7.61 | 15.54 | 10.92 | 11.49 | 10.51 | 10.22 | 11.36 | 12.5 | 12.22 | 12.87 | 11.21 | 7.19 | 10.20 | 9.90 | 11.12 | 10.50 | 7.52 | 10.30 | 12.05 | 12.35 | 10.71 | 10.42 | --- | --- | --- | --- | --- | --- | --- |
| 11. Number of Keying Errors Found on OCR Forms by Editors (VA011) | 1.53 | 1.54 | 2.92 | 4.60 | 2.22 | 4.92 | 2.95 | 5.05 | 2.13 | 6.14 | 3.22 | 2.35 | 2.73 | 3.07 | 4.92 | 3.11 | 5.61 | 3.25 | 3.92 | 4.50 | 4.19 | 2.13 | 2.22 | 5.25 | 5.72 | 7.08 | 5.63 | 4.00 | --- | --- | --- | --- | --- | --- | --- |
| 12. Number of Scanning Errors Found on OCR Forms by Editors (VA012) | 1.11 | 0.37 | 1.66 | 1.76 | 0.92 | 0.62 | 0.62 | 0.22 | 0.07 | 0.19 | 0.09 | 1.29 | 0.20 | 0.51 | 0.35 | 0.49 | 0.52 | 0.31 | 0.05 | 0.11 | 0.19 | 0.21 | 0.07 | 0.21 | 0.21 | 0.17 | 0.17 | 0.25 | --- | --- | --- | --- | --- | --- | --- |
| 13. Number of Document Resumes Corrected by ERIC Facility (VA013) | 5.69 | 6.76 | 9.49 | 3.35 | 7.20 | 10.05 | 5.20 | 9.34 | 7.62 | 9.11 | 6.55 | 7.33 | 9.01 | 3.45 | 9.35 | 9.77 | 10.12 | 7.95 | 5.22 | 3.11 | 10.36 | 3.93 | 5.22 | 3.25 | 11.17 | 9.05 | 9.56 | 7.92 | --- | --- | --- | --- | --- | --- | --- |
| 14. Number of Correction Lines Keyed by the ERIC Facility (VA014) | 20.1 | 25.11 | 23.71 | 25.29 | 29.02 | 32.10 | 19.06 | 42.97 | 21.79 | 33.60 | 31.97 | 22.09 | 35.64 | 30.13 | 31.52 | 40.20 | 5.17 | 29.39 | 1.06 | 25.37 | 26.77 | 29.97 | 16.70 | 33.21 | 27.13 | 42.40 | 5.07 | --- | --- | --- | --- | --- | --- | --- | --- |
| 15. Number of Document Resumes Scanned for OCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16. Number of sheets (of OCR Forms) Scanned for OCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17. Number of sheets (of OCR Forms) Scanned per Hour | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18. Number of Characters Scanned for OCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19. Number of Characters Scanned per Hour | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20. Numbers of Lines of Text Scanned for OCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Number of Lines of Text Scanned per Hour | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Number of Scanning Hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE AA

| CASE-N | CH | MONTH | WEEK | NOR05 | NOR06 | NOR07 | NOR08 | RHR | CHR | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | AA | 1. | 26. | 0.92 | 9.16 | 0.0 | 0.37 | 88888.00 | 88888.00 | 0.43 | 0.98 | 0.16 | 0.06 | 0.67 | 1.92 |
| 2 | AA | 2. | 2. | 0.65 | 11.79 | 0.0 | 0.23 | 88888.00 | 88888.00 | 0.33 | 1.50 | 0.29 | 0.0 | 0.81 | 3.38 |
| 3 | AA | 2. | 9. | 1.27 | 7.10 | 0.0 | 0.17 | 88888.00 | 88888.00 | 0.19 | 1.42 | 0.35 | 0.06 | 0.77 | 3.17 |
| 4 | AA | 2. | 16. | 0.66 | 9.34 | 0.0 | 0.28 | 88888.00 | 88888.00 | 0.07 | 1.38 | 0.66 | 0.03 | 0.90 | 3.41 |
| 5 | AA | 2. | 23. | 0.79 | 10.61 | 0.0 | 0.21 | 88888.00 | 88888.00 | 0.33 | 1.73 | 0.48 | 0.0 | 0.85 | 3.73 |
| 6 | AA | 2. | 30. | 0.24 | 6.90 | 0.10 | 0.31 | 3.26 | 0.17 | 0.28 | 1.00 | 0.28 | 0.07 | 0.83 | 2.34 |
| 7 | AA | 3. | 6. | 0.35 | 9.43 | 0.0 | 0.43 | 2.91 | 0.17 | 0.39 | 1.00 | 0.04 | 0.17 | 0.70 | 2.09 |
| 8 | AA | 3. | 13. | 1.00 | 10.97 | 0.0 | 0.73 | 5.89 | 0.64 | 0.52 | 0.88 | 0.18 | 0.0 | 0.58 | 1.67 |
| 9 | AA | 3. | 20. | 0.27 | 9.88 | 0.0 | 0.27 | 3.94 | 0.29 | 0.19 | 1.27 | 0.35 | 0.0 | 0.85 | 2.92 |
| 10 | AA | 3. | 27. | 0.85 | 15.30 | 0.0 | 0.37 | 3.97 | 0.39 | 0.67 | 1.30 | 0.19 | 0.0 | 0.74 | 3.52 |
| 11 | AA | 4. | 4. | 0.88 | 13.38 | 0.0 | 0.06 | 2.50 | 0.25 | 0.25 | 0.44 | 0.13 | 0.0 | 0.50 | 1.19 |
| 12 | AA | 4. | 11. | 0.63 | 29.75 | 0.0 | 0.50 | 88888.00 | 88888.00 | 0.63 | 0.50 | 0.13 | 0.38 | 0.63 | 1.38 |
| 13 | AA | 4. | 18. | 0.69 | 9.38 | 0.0 | 0.06 | 2.08 | 0.38 | 0.19 | 0.75 | 0.06 | 0.06 | 0.44 | 1.38 |
| 14 | AA | 4. | 25. | 1.00 | 24.38 | 0.0 | 0.13 | 1.67 | 0.10 | 0.25 | 1.38 | 0.13 | 0.0 | 0.63 | 2.25 |
| 15 | AA | 5. | 1. | 1.00 | 16.68 | 0.0 | 0.04 | 4.63 | 0.60 | 0.28 | 0.52 | 0.40 | 88888.00 | 0.64 | 1.68 |
| 16 | AA | 5. | 8. | 1.00 | 23.15 | 0.04 | 0.04 | 4.48 | 2.50 | 0.19 | 0.96 | 0.65 | 0.0 | 0.85 | 2.69 |
| 17 | AA | 5. | 15. | 1.62 | 23.05 | 0.0 | 0.0 | 3.68 | 1.67 | 0.14 | 0.76 | 0.29 | 0.05 | 0.57 | 88888.00 |
| 18 | AA | 5. | 22. | 1.29 | 25.14 | 0.0 | 0.0 | 1.49 | 0.10 | 0.43 | 0.43 | 0.43 | 0.0 | 0.57 | 1.71 |
| 19 | AA | 5. | 29. | 1.44 | 21.11 | 0.0 | 0.0 | 1.32 | 0.27 | 0.22 | 1.11 | 0.44 | 0.0 | 0.78 | 2.67 |
| 20 | AA | 6. | 6. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21 | AA | 6. | 13. | 2.43 | 25.21 | 0.0 | 0.0 | 2.75 | 1.67 | 0.0 | 1.00 | 0.50 | 0.0 | 0.79 | 2.64 |
| 22 | AA | 6. | 20. | 1.09 | 25.45 | 0.0 | 0.0 | 1.29 | 0.47 | 0.18 | 1.18 | 0.0 | 0.0 | 0.73 | 2.27 |
| 23 | AA | 6. | 27. | 2.11 | 24.33 | 0.0 | 0.0 | 1.61 | 0.70 | 0.22 | 1.33 | 0.89 | 0.0 | 0.89 | 3.33 |
| 24 | AA | 7. | 3. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25 | AA | 7. | 10. | 1.11 | 23.25 | 0.04 | 0.04 | 4.52 | 0.94 | 0.07 | 1.14 | 0.18 | 0.36 | 0.82 | 2.82 |
| 26 | AA | 7. | 17. | 1.06 | 19.58 | 0.0 | 0.0 | 6.32 | 1.25 | 0.33 | 1.06 | 0.44 | 0.06 | 0.81 | 4.83 |
| 27 | AA | 7. | 24. | 1.50 | 24.29 | 0.0 | 0.0 | 4.67 | 2.33 | 0.14 | 1.18 | 0.11 | 0.0 | 0.68 | 88888.00 |
| 28 | AA | 7. | 31. | 1.75 | 88888.00 | 88888.00 | 88888.00 | 3.58 | 88888.00 | 88888.00 | 1.00 | 0.54 | 0.0 | 0.79 | 88888.00 |
| 29 | AA | 8. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 30 | AA | 8. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 31 | AA | 8. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 32 | AA | 8. | 28. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 33 | AA | 9. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 34 | AA | 9. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 35 | AA | 9. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE BB

| CASE-N | CH | MONTH | WEEK | NOR05 | NOR06 | NOR07 | NOR08 | BHR | CHR | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BB | 1. | 26. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 2 | BB | 2. | 2. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 3 | BB | 2. | 9. | 1.87 | 3.43 | 0.0 | 1.33 | 88888.00 | 88888.00 | 0.10 | 0.83 | 0.33 | 0.0 | 0.80 | 3.83 |
| 4 | BB | 2. | 16. | 1.20 | 2.70 | 0.0 | 1.57 | 88888.00 | 88888.00 | 0.13 | 1.77 | 0.37 | 0.0 | 0.73 | 3.30 |
| 5 | BB | 2. | 23. | 2.30 | 4.40 | 0.0 | 1.53 | 88888.00 | 88888.00 | 0.13 | 1.67 | 0.23 | 0.0 | 0.77 | 3.27 |
| 6 | BB | 2. | 30. | 3.03 | 4.30 | 0.0 | 2.20 | 88888.00 | 88888.00 | 0.23 | 1.17 | 0.47 | 0.0 | 0.70 | 2.77 |
| 7 | BB | 3. | 6. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 8 | BB | 3. | 13. | 2.72 | 4.88 | 0.0 | 1.88 | 10.71 | 1.06 | 0.16 | 1.04 | 0.28 | 0.0 | 0.84 | 2.36 |
| 9 | BB | 3. | 20. | 2.47 | 3.22 | 0.0 | 2.41 | 10.67 | 1.92 | 0.50 | 0.78 | 0.16 | 0.0 | 0.53 | 1.31 |
| 10 | BB | 3. | 27. | 1.52 | 8.00 | 0.0 | 2.32 | 8.33 | 1.56 | 0.36 | 1.00 | 0.08 | 0.0 | 0.60 | 2.92 |
| 11 | BB | 4. | 4. | 0.00 | 0.01 | 0.0 | 0.00 | 10.71 | 0.86 | 0.00 | 0.00 | 0.00 | 88888.00 | 0.00 | 0.00 |
| 12 | BB | 4. | 11. | 1.10 | 4.47 | 0.0 | 1.73 | 11.54 | 0.27 | 0.43 | 0.67 | 0.10 | 0.0 | 0.47 | 1.27 |
| 13 | BB | 4. | 18. | 1.80 | 5.47 | 0.0 | 2.20 | 12.50 | 1.50 | 0.37 | 0.60 | 0.17 | 0.0 | 0.50 | 1.37 |
| 14 | BB | 4. | 25. | 1.57 | 6.43 | 0.0 | 1.67 | 88888.00 | 88888.00 | 0.23 | 0.60 | 0.23 | 0.0 | 0.60 | 1.50 |
| 15 | BB | 5. | 1. | 3.24 | 5.62 | 0.0 | 2.34 | 11.15 | 1.69 | 0.17 | 0.90 | 0.24 | 88888.00 | 0.59 | 2.34 |
| 16 | BB | 5. | 8. | 2.83 | 4.97 | 0.0 | 2.00 | 88888.00 | 88888.00 | 0.20 | 1.27 | 0.50 | 0.0 | 0.80 | 2.73 |
| 17 | BB | 5. | 15. | 2.53 | 6.30 | 0.0 | 2.23 | 88888.00 | 88888.00 | 0.20 | 1.10 | 0.17 | 0.03 | 0.67 | 88888.00 |
| 18 | BB | 5. | 22. | 3.21 | 9.71 | 0.0 | 2.79 | 88888.00 | 88888.00 | 0.43 | 0.64 | 0.29 | 0.14 | 0.64 | 3.57 |
| 19 | BB | 5. | 29. | 0.00 | 0.01 | 0.00 | 0.00 | 88888.00 | 88888.00 | 0.00 | 0.00 | 0.00 | 88888.00 | 0.00 | 0.00 |
| 20 | BB | 6. | 6. | 0.50 | 2.18 | 0.0 | 1.47 | 88888.00 | 88888.00 | 0.21 | 0.38 | 0.15 | 88888.00 | 0.35 | 88888.00 |
| 21 | BB | 6. | 13. | 0.77 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 0.60 | 0.0 | 0.10 | 0.43 | 1.17 |
| 22 | BB | 6. | 20. | 0.58 | 2.63 | 0.0 | 1.16 | 88888.00 | 88888.00 | 0.26 | 0.66 | 0.05 | 0.0 | 0.50 | 1.26 |
| 23 | BB | 6. | 27. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 24 | BB | 7. | 3. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 25 | BB | 7. | 10. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 26 | BB | 7. | 17. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 27 | BB | 7. | 24. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 28 | BB | 7. | 31. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 29 | BB | 8. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 30 | BB | 8. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 31 | BB | 8. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 32 | BB | 8. | 28. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 33 | BB | 9. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 34 | BB | 9. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 35 | BB | 9. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE CC

| CASE-# | CH | MONTH | WEEK | NOR05 | NOR06 | NOR07 | NOR08 | RHR | CHR | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CC | 1. | 26. | 0.83 | 15.83 | 0.0 | 0.0 | 88888.00 | 88888.00 | 0.0 | 0.75 | 0.08 | 0.08 | 0.75 | 2.08 |
| 2 | CC | 2. | 2. | 2.40 | 19.60 | 0.0 | 0.10 | 88888.00 | 88888.00 | 0.10 | 1.00 | 0.10 | 0.20 | 0.80 | 2.40 |
| 3 | CC | 2. | 9. | 2.10 | 18.70 | 0.0 | 0.20 | 88888.00 | 88888.00 | 0.70 | 1.20 | 0.10 | 0.90 | 1.00 | 4.50 |
| 4 | CC | 2. | 16. | 2.00 | 24.00 | 0.0 | 0.10 | 88888.00 | 88888.00 | 0.10 | 1.40 | 0.50 | 1.60 | 0.90 | 6.00 |
| 5 | CC | 2. | 23. | 4.58 | 25.42 | 0.0 | 0.58 | 88888.00 | 88888.00 | 0.0 | 1.00 | 0.58 | 0.75 | 0.75 | 4.83 |
| 6 | CC | 2. | 30. | 5.71 | 26.00 | 0.0 | 0.29 | 88888.00 | 88888.00 | 0.0 | 0.57 | 0.86 | 0.0 | 0.86 | 2.71 |
| 7 | CC | 3. | 6. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8 | CC | 3. | 13. | 3.29 | 24.86 | 0.0 | 0.07 | 88888.00 | 88888.00 | 0.0 | 3.79 | 1.57 | 0.07 | 2.29 | 9.29 |
| 9 | CC | 3. | 20. | 9.85 | 28.62 | 0.0 | 0.38 | 88888.00 | 88888.00 | 0.08 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 10 | CC | 3. | 27. | 3.58 | 32.33 | 0.0 | 0.42 | 88888.00 | 88888.00 | 0.50 | 0.83 | 0.17 | 0.0 | 0.50 | 2.17 |
| 11 | CC | 4. | 4. | 4.40 | 31.10 | 0.0 | 0.10 | 1.25 | 0.42 | 0.40 | 0.80 | 0.50 | 88888.00 | 0.60 | 2.30 |
| 12 | CC | 4. | 11. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13 | CC | 4. | 18. | 3.90 | 21.25 | 0.0 | 0.70 | 88888.00 | 88888.00 | 0.15 | 1.70 | 0.35 | 0.0 | 1.00 | 4.85 |
| 14 | CC | 4. | 25. | 5.47 | 23.95 | 0.0 | 0.11 | 88888.00 | 88888.00 | 0.79 | 2.05 | 0.53 | 0.05 | 0.95 | 4.11 |
| 15 | CC | 5. | 1. | 4.86 | 16.57 | 0.0 | 0.07 | 88888.00 | 88888.00 | 0.57 | 1.57 | 0.57 | 0.14 | 0.79 | 3.43 |
| 16 | CC | 5. | 8. | 0.00 | 0.04 | 0.0 | 0.00 | 88888.00 | 88888.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 17 | CC | 5. | 15. | 5.12 | 21.82 | 0.0 | 0.12 | 88888.00 | 88888.00 | 0.29 | 1.18 | 0.53 | 0.0 | 0.71 | 88888.00 |
| 18 | CC | 5. | 22. | 3.90 | 28.30 | 0.0 | 0.90 | 88888.00 | 88888.00 | 0.20 | 0.20 | 0.20 | 0.0 | 1.40 | 3.30 |
| 19 | CC | 5. | 29. | 3.60 | 24.20 | 0.0 | 0.33 | 88888.00 | 88888.00 | 0.20 | 1.40 | 0.73 | 0.0 | 0.87 | 3.53 |
| 20 | CC | 6. | 6. | 9.33 | 33.58 | 0.0 | 0.33 | 88888.00 | 88888.00 | 1.08 | 1.08 | 0.58 | 88888.00 | 0.58 | 2.75 |
| 21 | CC | 6. | 13. | 3.75 | 21.50 | 0.0 | 0.50 | 88888.00 | 88888.00 | 0.42 | 1.33 | 0.17 | 0.0 | 0.75 | 2.50 |
| 22 | CC | 6. | 20. | 3.44 | 18.89 | 0.0 | 0.22 | 88888.00 | 88888.00 | 0.78 | 1.67 | 0.22 | 0.0 | 1.00 | 3.33 |
| 23 | CC | 6. | 27. | 3.86 | 15.71 | 0.0 | 0.29 | 88888.00 | 88888.00 | 0.43 | 1.43 | 0.43 | 0.0 | 1.00 | 3.29 |
| 24 | CC | 7. | 3. | 6.55 | 22.73 | 0.0 | 0.64 | 88888.00 | 88888.00 | 1.00 | 1.36 | 0.55 | 0.09 | 0.73 | 3.27 |
| 25 | CC | 7. | 10. | 3.58 | 14.17 | 0.08 | 0.75 | 88888.00 | 88888.00 | 0.25 | 2.75 | 1.58 | 0.08 | 1.75 | 88888.00 |
| 26 | CC | 7. | 17. | 1.92 | 13.75 | 0.0 | 0.17 | 88888.00 | 88888.00 | 0.33 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 27 | CC | 7. | 24. | 2.91 | 11.45 | 0.0 | 0.45 | 88888.00 | 88888.00 | 0.0 | 1.09 | 0.09 | 0.0 | 0.73 | 88888.00 |
| 28 | CC | 7. | 31. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 29 | CC | 8. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 30 | CC | 8. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 31 | CC | 8. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 32 | CC | 8. | 28. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 33 | CC | 9. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 34 | CC | 9. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 35 | CC | 9. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE DD

| CASE-N | CH | MONTH | WEEK | NOR05 | NOR06 | NOR07 | NOR08 | RHR | CHR | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DD | 1. | 26. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 2 | DD | 2. | 2. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 3 | DD | 2. | 9. | 1.08 | 4.83 | 0.0 | 0.42 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 4 | DD | 2. | 16. | 1.54 | 6.85 | 0.0 | 0.54 | 88888.00 | 88888.00 | 0.08 | 1.00 | 0.0 | 0.0 | 0.67 | 2.17 |
| 5 | DD | 2. | 23. | 1.18 | 17.73 | 0.0 | 0.45 | 88888.00 | 88888.00 | 0.62 | 1.23 | 0.15 | 0.0 | 0.62 | 2.08 |
| 6 | DD | 2. | 30. | 1.08 | 10.25 | 0.0 | 0.08 | 1.90 | 0.09 | 0.36 | 1.55 | 0.27 | 0.0 | 0.82 | 1.64 |
| 7 | DD | 3. | 6. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.00 | 0.17 | 0.0 | 0.67 | 2.33 |
| 8 | DD | 3. | 13. | 2.65 | 15.65 | 0.0 | 0.30 | 3.97 | 0.42 | 0.70 | 0.78 | 0.17 | 0.0 | 0.52 | 1.57 |
| 9 | DD | 3. | 20. | 1.30 | 17.10 | 0.0 | 0.50 | 1.49 | 0.12 | 0.20 | 0.20 | 0.10 | 0.0 | 0.20 | 0.70 |
| 10 | DD | 3. | 27. | 88888.00 | 19.00 | 0.0 | 0.33 | 2.11 | 88888.00 | 0.50 | 0.50 | 0.33 | 0.0 | 0.58 | 1.58 |
| 11 | DD | 4. | 4. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12 | DD | 4. | 11. | 1.47 | 21.18 | 0.0 | 0.53 | 2.79 | 88888.00 | 0.53 | 1.18 | 0.12 | 0.06 | 0.82 | 1.29 |
| 13 | DD | 4. | 18. | 1.31 | 7.50 | 0.0 | 0.31 | 2.19 | 0.13 | 0.50 | 0.75 | 0.13 | 0.06 | 0.69 | 1.81 |
| 14 | DD | 4. | 25. | 7500.00 | 9.33 | 0.0 | 0.50 | 88888.00 | 88888.00 | 0.0 | 0.83 | 0.0 | 0.08 | 0.50 | 2.67 |
| 15 | DD | 5. | 1. | 0.87 | 9.00 | 0.0 | 0.40 | 1.61 | 0.10 | 0.20 | 0.60 | 0.20 | 0.0 | 0.73 | 1.87 |
| 16 | DD | 5. | 8. | 2.33 | 11.20 | 0.07 | 0.47 | 2.05 | 1.50 | 0.20 | 0.93 | 0.33 | 0.0 | 0.73 | 2.67 |
| 17 | DD | 5. | 15. | 3.57 | 3.21 | 0.0 | 0.29 | 88888.00 | 88888.00 | 0.36 | 0.64 | 0.50 | 0.0 | 0.79 | 2.43 |
| 18 | DD | 5. | 22. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19 | DD | 5. | 29. | 3.36 | 14.05 | 0.0 | 0.27 | 88888.00 | 88888.00 | 0.50 | 0.45 | 0.50 | 0.05 | 0.45 | 3.50 |
| 20 | DD | 6. | 6. | 3.36 | 6.36 | 0.0 | 0.14 | 88888.00 | 88888.00 | 0.50 | 0.36 | 0.32 | 0.0 | 0.50 | 1.50 |
| 21 | DD | 6. | 13. | 2.25 | 10.67 | 0.0 | 0.0 | 88888.00 | 88888.00 | 0.08 | 0.50 | 0.08 | 0.17 | 0.58 | 1.42 |
| 22 | DD | 6. | 20. | 1.75 | 9.33 | 0.0 | 0.50 | 88888.00 | 88888.00 | 0.42 | 0.67 | 0.0 | 0.17 | 0.58 | 1.33 |
| 23 | DD | 6. | 27. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24 | DD | 7. | 3. | 1.47 | 6.60 | 0.0 | 0.47 | 88888.00 | 88888.00 | 0.33 | 0.40 | 0.20 | 0.07 | 0.47 | 1.27 |
| 25 | DD | 7. | 10. | 0.36 | 1.89 | 0.0 | 0.05 | 88888.00 | 88888.00 | 0.02 | 0.16 | 0.0 | 0.09 | 0.16 | 0.52 |
| 26 | DD | 7. | 17. | 0.69 | 7.08 | 0.0 | 0.31 | 88888.00 | 88888.00 | 0.0 | 0.0 | 0.23 | 0.0 | 0.23 | 0.54 |
| 27 | DD | 7. | 24. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 28 | DD | 7. | 31. | 1.06 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 0.44 | 0.0 | 0.0 | 0.38 | 88888.00 |
| 29 | DD | 8. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 30 | DD | 8. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 31 | DD | 8. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 32 | DD | 8. | 28. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 33 | DD | 9. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 34 | DD | 9. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 35 | DD | 9. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |

110

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE EE

| CASE-N | CH | MONTH | WEEK | NOR05 | NOR06 | NOR07 | NOR08 | BHR | CHR | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EE | 1. | 26. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 2 | EE | 2. | 2. | 1.89 | 0.54 | 0.0 | 0.43 | 88888.00 | 88888.00 | 0.04 | 1.64 | 0.07 | 0.0 | 0.75 | 2.57 |
| 3 | EE | 2. | 9. | 1.10 | 3.37 | 0.0 | 0.30 | 88888.00 | 88888.00 | 0.03 | 0.53 | 0.03 | 0.0 | 0.37 | 0.93 |
| 4 | EE | 2. | 16. | 2.00 | 565.22 | 0.0 | 0.43 | 88888.00 | 88888.00 | 0.04 | 0.91 | 0.04 | 0.0 | 0.70 | 1.96 |
| 5 | EE | 2. | 23. | 2.07 | 9.33 | 0.0 | 0.67 | 88888.00 | 88888.00 | 0.13 | 0.67 | 0.20 | 0.0 | 0.53 | 1.47 |
| 6 | EE | 2. | 30. | 1.44 | 6.28 | 0.0 | 0.64 | 88888.00 | 88888.00 | 0.36 | 0.92 | 0.16 | 0.08 | 0.72 | 2.04 |
| 7 | EE | 3. | 6. | 1.88 | 7.46 | 0.0 | 0.75 | 88888.00 | 88888.00 | 0.38 | 0.17 | 0.0 | 0.0 | 0.17 | 0.33 |
| 8 | EE | 3. | 13. | 1.88 | 5.24 | 0.0 | 0.65 | 1.47 | 0.08 | 0.0 | 0.47 | 0.0 | 0.0 | 0.29 | 0.76 |
| 9 | EE | 3. | 20. | 1.33 | 8.00 | 0.0 | 1.00 | 1.90 | 0.33 | 0.0 | 0.33 | 88888.00 | 88888.00 | 0.17 | 0.50 |
| 10 | EE | 3. | 27. | 1.47 | 13.87 | 0.0 | 0.53 | 2.42 | 0.32 | 0.07 | 0.33 | 0.40 | 0.0 | 0.40 | 1.47 |
| 11 | EE | 4. | 4. | 1.80 | 6.70 | 0.0 | 0.37 | 3.45 | 0.50 | 0.27 | 0.37 | 0.03 | 0.0 | 0.27 | 0.73 |
| 12 | EE | 4. | 11. | 2.67 | 6.06 | 0.0 | 0.44 | 2.50 | 0.31 | 0.17 | 0.50 | 0.06 | 0.0 | 0.50 | 0.61 |
| 13 | EE | 4. | 18. | 1.92 | 12.62 | 0.0 | 0.92 | 1.59 | 0.33 | 0.38 | 1.15 | 0.08 | 0.0 | 0.69 | 2.15 |
| 14 | EE | 4. | 25. | 1.08 | 8.00 | 0.0 | 0.75 | 1.33 | 0.04 | 0.0 | 0.58 | 0.0 | 0.0 | 0.67 | 1.42 |
| 15 | EE | 5. | 1. | 1.72 | 8.64 | 0.0 | 0.40 | 88888.00 | 88888.00 | 0.24 | 0.96 | 0.44 | 0.0 | 0.72 | 2.36 |
| 16 | EE | 5. | 8. | 1.92 | 6.19 | 0.0 | 0.58 | 88888.00 | 88888.00 | 0.27 | 88888.00 | 88888.00 | 88888.00 | 0.58 | 2.58 |
| 17 | EE | 5. | 15. | 1.30 | 7.63 | 0.0 | 0.22 | 88888.00 | 88888.00 | 0.19 | 0.70 | 0.19 | 0.0 | 0.52 | 88888.00 |
| 18 | EE | 5. | 22. | 0.98 | 8.33 | 0.0 | 0.61 | 88888.00 | 88888.00 | 0.33 | 0.94 | 0.0 | 0.0 | 0.72 | 1.89 |
| 19 | EE | 5. | 29. | 1.16 | 4.42 | 0.0 | 0.11 | 88888.00 | 88888.00 | 0.26 | 0.63 | 0.0 | 0.0 | 0.53 | 1.16 |
| 20 | EE | 6. | 6. | 1.45 | 5.64 | 0.0 | 0.27 | 88888.00 | 88888.00 | 0.09 | 0.45 | 0.09 | 0.0 | 0.55 | 1.18 |
| 21 | EE | 6. | 13. | 2.13 | 9.06 | 0.0 | 0.50 | 88888.00 | 88888.00 | 0.31 | 2.38 | 0.56 | 88888.00 | 1.75 | 5.38 |
| 22 | EE | 6. | 20. | 1.11 | 6.59 | 0.0 | 0.26 | 88888.00 | 88888.00 | 0.30 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 23 | EE | 6. | 27. | 3.29 | 7.64 | 0.0 | 0.36 | 88888.00 | 88888.00 | 0.14 | 0.14 | 0.21 | 0.07 | 0.36 | 0.79 |
| 24 | EE | 7. | 3. | 1.94 | 5.11 | 0.0 | 0.39 | 88888.00 | 88888.00 | 0.17 | 0.56 | 0.28 | 0.0 | 0.50 | 1.44 |
| 25 | EE | 7. | 10. | 0.81 | 5.56 | 0.0 | 0.19 | 88888.00 | 88888.00 | 0.0 | 0.88 | 0.06 | 0.0 | 0.88 | 3.31 |
| 26 | EE | 7. | 17. | 1.66 | 5.90 | 0.0 | 0.52 | 88888.00 | 88888.00 | 0.10 | 0.34 | 0.07 | 88888.00 | 0.21 | 4.76 |
| 27 | EE | 7. | 24. | 1.20 | 5.60 | 0.0 | 0.93 | 88888.00 | 88888.00 | 0.17 | 0.97 | 0.17 | 88888.00 | 0.97 | 88888.00 |
| 28 | EE | 7. | 31. | 1.33 | 88888.00 | 88888.00 | 88888.00 | 88968.00 | 88888.00 | 88888.00 | 0.52 | 0.10 | 0.0 | 0.52 | 88888.00 |
| 29 | EE | 8. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 30 | EE | 8. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 31 | EE | 8. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 32 | EE | 8. | 28. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 33 | EE | 9. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 34 | EE | 9. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 35 | EE | 9. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |

111

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE FF

| CASE-N | CH | MONTH | WEEK | NOR05 | NOR06 | NOR07 | NOR08 | RHR | CHR | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FF | 1. | 26. | 3.58 | 21.58 | 0.0 | 0.05 | 88888.00 | 88888.00 | 0.37 | 1.11 | 0.11 | 0.21 | 0.58 | 2.45 |
| 2 | FF | 2. | 2. | 2.16 | 25.59 | 0.0 | 0.03 | 88888.00 | 88888.00 | 0.0 | 0.65 | 0.16 | 0.03 | 0.57 | 1.57 |
| 3 | FF | 2. | 9. | 2.52 | 24.91 | 0.0 | 0.0 | 88988.00 | 88888.00 | 0.0 | 0.52 | 0.09 | 0.0 | 0.39 | 1.03 |
| 4 | FF | 2. | 16. | 1.63 | 30.47 | 0.0 | 0.03 | 88888.00 | 88888.00 | 0.0 | 0.37 | 0.32 | 0.0 | 0.47 | 1.21 |
| 5 | FF | 2. | 23. | 3.76 | 35.28 | 0.0 | 0.0 | 88888.00 | 88888.00 | 0.0 | 0.21 | 0.28 | 0.07 | 0.28 | 0.93 |
| 6 | FF | 2. | 30. | 1.62 | 24.16 | 0.0 | 0.05 | 88888.00 | 88888.00 | 0.0 | 0.27 | 0.27 | 0.0 | 0.43 | 1.14 |
| 7 | FF | 3. | 6. | 2.13 | 24.53 | 0.0 | 0.0 | 8.00 | 1.04 | 0.06 | 0.63 | 0.22 | 0.0 | 0.66 | 1.56 |
| 8 | FF | 3. | 13. | 2.18 | 24.88 | 0.0 | 0.0 | 6.60 | 1.13 | 0.03 | 0.27 | 0.33 | 0.0 | 0.42 | 1.09 |
| 9 | FF | 3. | 20. | 1.35 | 27.77 | 0.0 | 0.0 | 6.19 | 0.67 | 0.19 | 0.19 | 0.15 | 88888.00 | 0.27 | 0.62 |
| 10 | FF | 3. | 27. | 2.00 | 17.47 | 0.0 | 0.0 | 3.09 | 0.77 | 0.12 | 0.76 | 0.18 | 0.0 | 0.59 | 1.53 |
| 11 | FF | 4. | 4. | 2.44 | 25.80 | 0.0 | 0.0 | 5.81 | 0.55 | 0.28 | 0.84 | 0.60 | 88888.00 | 0.44 | 2.24 |
| 12 | FF | 4. | 11. | 2.69 | 23.09 | 0.0 | 0.0 | 7.29 | 0.84 | 0.51 | 0.26 | 0.11 | 0.0 | 0.31 | 0.71 |
| 13 | FF | 4. | 18. | 4.07 | 26.66 | 0.0 | 0.0 | 5.56 | 0.46 | 0.21 | 0.14 | 0.17 | 88888.00 | 0.24 | 0.62 |
| 14 | FF | 4. | 25. | 88888.00 | 24.14 | 0.0 | 0.05 | 4.31 | 88888.00 | 0.59 | 0.68 | 0.14 | 0.0 | 0.59 | 1.50 |
| 15 | FF | 5. | 1. | 1.43 | 21.71 | 0.0 | 0.05 | 4.20 | 0.31 | 0.29 | 0.33 | 0.10 | 0.0 | 0.38 | 0.86 |
| 16 | FF | 5. | 8. | 2.70 | 21.56 | 0.0 | 0.0 | 5.40 | 0.74 | 0.30 | 0.81 | 0.52 | 0.07 | 0.78 | 2.48 |
| 17 | FF | 5. | 15. | 1.70 | 22.91 | 0.0 | 0.0 | 5.11 | 0.69 | 0.09 | 0.43 | 0.30 | 0.0 | 0.57 | 88888.00 |
| 18 | FF | 5. | 22. | 1.88 | 14.36 | 0.0 | 0.08 | 5.10 | 0.24 | 0.20 | 0.20 | 0.16 | 0.0 | 0.32 | 0.68 |
| 19 | FF | 5. | 29. | 2.86 | 20.14 | 0.0 | 0.07 | 2.75 | 0.28 | 0.21 | 0.86 | 0.0 | 0.0 | 0.64 | 1.86 |
| 20 | FF | 6. | 6. | 3.00 | 28.71 | 0.0 | 0.03 | 8.10 | 0.93 | 0.24 | 0.32 | 0.06 | 0.06 | 0.32 | 0.79 |
| 21 | FF | 6. | 13. | 3.19 | 88888.00 | 88888.00 | 88888.00 | 6.40 | 1.04 | 88888.00 | 0.13 | 0.06 | 88888.00 | 0.13 | 0.31 |
| 22 | FF | 6. | 20. | 1.71 | 24.54 | 0.0 | 0.06 | 5.30 | 0.44 | 0.14 | 0.29 | 0.14 | 88888.00 | 0.37 | 0.80 |
| 23 | FF | 6. | 27. | 2.76 | 22.93 | 0.0 | 0.0 | 7.19 | 0.66 | 0.02 | 0.73 | 0.17 | 0.0 | 0.44 | 1.46 |
| 24 | FF | 7. | 3. | 2.48 | 29.03 | 0.0 | 0.03 | 5.79 | 0.58 | 0.12 | 0.15 | 0.15 | 0.0 | 0.24 | 0.61 |
| 25 | FF | 7. | 10. | 3.28 | 14.41 | 0.0 | 0.0 | 88888.00 | 88888.00 | 0.22 | 0.47 | 0.38 | 0.0 | 0.66 | 1.78 |
| 26 | FF | 7. | 17. | 2.40 | 25.60 | 0.0 | 0.03 | 4.05 | 0.33 | 0.17 | 0.23 | 0.27 | 0.0 | 0.33 | 0.93 |
| 27 | FF | 7. | 24. | 2.54 | 21.00 | 0.0 | 0.0 | 3.08 | 0.47 | 0.04 | 0.54 | 0.21 | 0.0 | 0.43 | 1.39 |
| 28 | FF | 7. | 31. | 1.76 | 88888.00 | 88888.00 | 88888.00 | 3.73 | 0.15 | 88888.00 | 0.48 | 0.20 | 0.0 | 0.40 | 88888.00 |
| 29 | FF | 8. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 30 | FF | 8. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 31 | FF | 8. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 32 | FF | 8. | 28. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 33 | FF | 9. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 34 | FF | 9. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 35 | FF | 9. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE GG

| CASE-N | CH | MONTH | WEEK | NOR05 | NOR06 | NOR07 | NOR08 | RHR | CHR | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | GG | 1. | 26. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 2 | GG | 2. | 2. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 3 | GG | 2. | 9. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 4 | GG | 2. | 16. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 5 | GG | 2. | 23. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 6 | GG | 2. | 30. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 7 | GG | 3. | 6. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 98888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 8 | GG | 3. | 13. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 9 | GG | 3. | 20. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 10 | GG | 3. | 27. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 11 | GG | 4. | 4. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 12 | GG | 4. | 11. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 13 | GG | 4. | 18. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 14 | GG | 4. | 25. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 15 | GG | 5. | 1. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 16 | GG | 5. | 8. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 17 | GG | 5. | 15. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 18 | GG | 5. | 22. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 19 | GG | 5. | 29. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 20 | GG | 6. | 6. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 21 | GG | 6. | 13. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 22 | GG | 6. | 20. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 23 | GG | 6. | 27. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 24 | GG | 7. | 3. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 25 | GG | 7. | 10. | 1.43 | 1.14 | 0.0 | 0.0 | 88888.00 | 88888.00 | 0.0 | 1.71 | 0.71 | 0.0 | 1.00 | 4.29 |
| 26 | GG | 7. | 17. | 88888.00 | 2.00 | 0.0 | 0.0 | 88888.00 | 88888.00 | 0.0 | 4.00 | 3.00 | 88888.00 | 1.00 | 8.00 |
| 27 | GG | 7. | 24. | 88888.00 | 3.29 | 0.0 | 0.18 | 88888.00 | 88888.00 | 0.18 | 0.47 | 0.59 | 88888.00 | 0.71 | 2.35 |
| 28 | GG | 7. | 31. | 0.73 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 0.91 | 0.45 | 88888.00 | 0.73 | 88888.00 |
| 29 | GG | 8. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 30 | GG | 8. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 31 | GG | 8. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 32 | GG | 8. | 28. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 33 | GG | 9. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 34 | GG | 9. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 35 | GG | 9. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE HH

| CASE-N | CH | MONTH | WEEK | NOR05 | NOR06 | NOR07 | NOR08 | RHR | CHR | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HH | 1. | 26. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 2 | HH | 2. | 2. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 3 | HH | 2. | 9. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 4 | HH | 2. | 16. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 5 | HH | 2. | 23. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 6 | HH | 2. | 30. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 7 | HH | 3. | 6. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 8 | HH | 3. | 13. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 9 | HH | 3. | 20. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 10 | HH | 3. | 27. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 11 | HH | 4. | 4. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 12 | HH | 4. | 11. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 13 | HH | 4. | 18. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 14 | HH | 4. | 25. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 15 | HH | 5. | 1. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 16 | HH | 5. | 8. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 17 | HH | 5. | 15. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 18 | HH | 5. | 22. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 19 | HH | 5. | 29. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 20 | HH | 6. | 6. | 4.80 | 8.20 | 2.40 | 1.60 | 4.84 | 2.17 | 0.40 | 0.67 | 0.27 | 0.0 | 0.60 | 2.00 |
| 21 | HH | 6. | 13. | 4.53 | 24.11 | 3.58 | 1.58 | 88888.00 | 88888.00 | 0.0 | 0.95 | 0.16 | 0.0 | 0.68 | 1.89 |
| 22 | HH | 6. | 20. | 4.33 | 7.92 | 4.58 | 3.17 | 88888.00 | 88888.00 | 0.0 | 1.08 | 0.25 | 0.0 | 0.67 | 2.08 |
| 23 | HH | 6. | 27. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24 | HH | 7. | 3. | 3.83 | 10.06 | 3.89 | 2.33 | 88888.00 | 88888.00 | 0.17 | 0.89 | 0.56 | 0.0 | 0.83 | 2.44 |
| 25 | HH | 7. | 10. | 5.80 | 11.73 | 4.67 | 2.07 | 88888.00 | 88888.00 | 0.20 | 0.40 | 0.13 | 0.40 | 0.67 | 4.73 |
| 26 | HH | 7. | 17. | 5.50 | 15.08 | 4.25 | 2.58 | 88888.00 | 88888.00 | 0.0 | 0.17 | 0.58 | 0.0 | 0.50 | 1.58 |
| 27 | HH | 7. | 24. | 4.27 | 17.18 | 2.91 | 2.00 | 88888.00 | 88888.00 | 0.09 | 0.55 | 0.09 | 0.0 | 0.36 | 88888.00 |
| 28 | HH | 7. | 31. | 2.76 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 0.53 | 0.24 | 0.0 | 0.53 | 88888.00 |
| 29 | HH | 8. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 30 | HH | 8. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 31 | HH | 8. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 32 | HH | 8. | 28. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 33 | HH | 9. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 34 | HH | 9. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 35 | HH | 9. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE II

| CASE-N | CH | MONTH | WEEK | NOR05 | NOR06 | NOR07 | NOR08 | RHR | CHR | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | II | 1. | 26. | 3.44 | 15.72 | 0.0 | 1.32 | 88888.00 | 88888.00 | 0.24 | 0.72 | 0.36 | 0.04 | 0.60 | 2.08 |
| 2 | II | 2. | 2. | 4.71 | 20.36 | 0.0 | 1.21 | 88888.00 | 88888.00 | 0.43 | 1.00 | 0.43 | 0.07 | 0.0 | 2.93 |
| 3 | II | 2. | 9. | 5.92 | 19.12 | 0.0 | 1.20 | 88888.00 | 88888.00 | 0.52 | 2.68 | 0.92 | 0.04 | 0.96 | 6.04 |
| 4 | II | 2. | 16. | 6.82 | 29.27 | 0.0 | 1.18 | 88888.00 | 88888.00 | 0.82 | 1.82 | 1.73 | 0.09 | 1.00 | 6.27 |
| 5 | II | 2. | 23. | 2.53 | 20.47 | 0.0 | 0.80 | 88888.00 | 88888.00 | 0.43 | 1.13 | 0.30 | 0.10 | 0.73 | 3.37 |
| 6 | II | 2. | 30. | 4.50 | 24.30 | 0.0 | 1.30 | 7.14 | 88888.00 | 0.30 | 0.90 | 0.50 | 0.0 | 0.75 | 2.80 |
| 7 | II | 3. | 6. | 3.24 | 17.88 | 0.0 | 1.06 | 4.36 | 88888.00 | 0.12 | 0.24 | 0.47 | 0.0 | 0.24 | 1.24 |
| 8 | II | 3. | 13. | 2.73 | 11.27 | 0.13 | 0.60 | 3.26 | 0.25 | 0.40 | 0.80 | 0.33 | 0.0 | 0.87 | 8.60 |
| 9 | II | 3. | 20. | 2.13 | 14.13 | 0.17 | 1.04 | 4.80 | 0.64 | 0.46 | 1.25 | 0.29 | 0.08 | 0.75 | 3.67 |
| 10 | II | 3. | 27. | 4.48 | 17.67 | 0.19 | 1.33 | 88888.00 | 88888.00 | 0.24 | 1.86 | 1.05 | 0.19 | 1.00 | 4.57 |
| 11 | II | 4. | 4. | 3.55 | 16.75 | 0.0 | 1.10 | 88888.00 | 88888.00 | 0.80 | 2.65 | 0.50 | 0.05 | 0.85 | 5.30 |
| 12 | II | 4. | 11. | 3.79 | 12.21 | 0.0 | 0.37 | 88888.00 | 88888.00 | 0.53 | 1.05 | 0.37 | 0.79 | 0.84 | 4.21 |
| 13 | II | 4. | 18. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14 | II | 4. | 25. | 2.00 | 10.86 | 0.0 | 0.54 | 88888.00 | 88888.00 | 0.69 | 0.80 | 0.49 | 0.11 | 0.83 | 3.86 |
| 15 | II | 5. | 1. | 5.10 | 27.05 | 0.0 | 1.24 | 88888.00 | 88888.00 | 0.52 | 0.86 | 0.29 | 0.05 | 0.67 | 4.71 |
| 16 | II | 5. | 8. | 1.22 | 11.35 | 0.26 | 1.09 | 88888.00 | 88888.00 | 0.22 | 2.96 | 0.39 | 0.17 | 0.96 | 6.09 |
| 17 | II | 5. | 15. | 3.50 | 41.35 | 0.15 | 0.65 | 88888.00 | 88888.00 | 0.42 | 2.08 | 0.92 | 0.23 | 0.85 | 88888.00 |
| 18 | II | 5. | 22. | 1.86 | 9.09 | 0.05 | 0.86 | 88888.00 | 88888.00 | 0.68 | 0.50 | 0.45 | 0.23 | 0.64 | 4.14 |
| 19 | II | 5. | 29. | 1.38 | 10.71 | 0.10 | 0.90 | 88888.00 | 88888.00 | 0.43 | 0.38 | 0.05 | 88888.00 | 0.33 | 0.86 |
| 20 | II | 6. | 6. | 2.52 | 12.70 | 0.0 | 1.39 | 88888.00 | 88888.00 | 0.70 | 0.74 | 0.39 | 0.09 | 0.65 | 2.74 |
| 21 | II | 6. | 13. | 1.08 | 10.67 | 0.08 | 1.33 | 88888.00 | 88888.00 | 0.54 | 1.25 | 0.13 | 0.04 | 0.75 | 3.42 |
| 22 | II | 6. | 20. | 1.65 | 11.00 | 0.18 | 1.24 | 88888.00 | 88888.00 | 0.65 | 0.47 | 0.35 | 0.0 | 0.59 | 1.59 |
| 23 | II | 6. | 27. | 2.08 | 27.46 | 0.08 | 0.62 | 88888.00 | 88888.00 | 0.54 | 0.77 | 0.08 | 88888.00 | 0.62 | 1.46 |
| 24 | II | 7. | 3. | 88888.00 | 25.30 | 0.0 | 0.20 | 88888.00 | 88888.00 | 0.0 | 1.00 | 0.70 | 0.10 | 0.90 | 6.90 |
| 25 | II | 7. | 10. | 2.16 | 10.53 | 0.16 | 0.84 | 88888.00 | 88888.00 | 0.53 | 0.47 | 0.0 | 0.32 | 0.58 | 88888.00 |
| 26 | II | 7. | 17. | 6.83 | 19.67 | 0.0 | 0.83 | 88888.00 | 88888.00 | 1.17 | 0.67 | 1.00 | 0.0 | 0.83 | 3.17 |
| 27 | II | 7. | 24. | 3.86 | 16.86 | 0.0 | 0.71 | 88888.00 | 88888.00 | 1.00 | 0.43 | 1.71 | 0.0 | 1.00 | 88888.00 |
| 28 | II | 7. | 31. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 29 | II | 8. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 30 | II | 8. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 31 | II | 8. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 32 | II | 8. | 28. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 33 | II | 9. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 34 | II | 9. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 35 | II | 9. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE JJ

| CASE-N | CH | MONTH | WEEK | NOR05 | NOR06 | NOR07 | NOR08 | BHR | CHR | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | JJ | 1. | 26. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 2 | JJ | 2. | 2. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 3 | JJ | 2. | 9. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 4 | JJ | 2. | 16. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 5 | JJ | 2. | 23. | 1.47 | 6.24 | 0.0 | 0.29 | 88888.00 | 88888.00 | 0.59 | 0.47 | 0.06 | 0.0 | 0.35 | 0.88 |
| 6 | JJ | 2. | 30. | 88888.00 | 4.33 | 0.0 | 0.06 | 88888.00 | 88888.00 | 0.33 | 0.78 | 0.11 | 0.0 | 0.50 | 1.50 |
| 7 | JJ | 3. | 6. | 1.18 | 6.56 | 0.0 | 0.53 | 88888.00 | 88888.00 | 0.32 | 0.03 | 0.09 | 0.06 | 0.15 | 0.38 |
| 8 | JJ | 3. | 13. | 0.59 | 4.00 | 0.0 | 0.77 | 88888.00 | 88888.00 | 0.32 | 0.77 | 0.0 | 0.0 | 0.68 | 1.77 |
| 9 | JJ | 3. | 20. | 0.68 | 2.12 | 0.0 | 0.28 | 88888.00 | 88888.00 | 0.20 | 0.52 | 0.12 | 88888.00 | 0.52 | 1.24 |
| 10 | JJ | 3. | 27. | 0.20 | 2.15 | 0.0 | 0.25 | 88888.00 | 88888.00 | 0.20 | 0.70 | 0.15 | 0.0 | 0.55 | 1.55 |
| 11 | JJ | 4. | 4. | 0.44 | 3.33 | 0.0 | 0.39 | 88888.00 | 88888.00 | 0.11 | 0.72 | 88888.00 | 88888.00 | 0.50 | 1.22 |
| 12 | JJ | 4. | 11. | 0.67 | 2.76 | 0.0 | 0.48 | 88888.00 | 88888.00 | 0.05 | 0.81 | 0.0 | 0.0 | 0.43 | 1.57 |
| 13 | JJ | 4. | 18. | 0.35 | 2.88 | 0.06 | 0.29 | 88888.00 | 88888.00 | 0.12 | 0.41 | 0.88 | 0.0 | 0.88 | 4.41 |
| 14 | JJ | 4. | 25. | 0.69 | 3.25 | 0.0 | 0.25 | 88888.00 | 88888.00 | 0.25 | 0.31 | 88888.00 | 88888.00 | 0.25 | 0.56 |
| 15 | JJ | 5. | 1. | 0.40 | 1.93 | 0.0 | 0.40 | 88888.00 | 88888.00 | 0.07 | 0.13 | 0.13 | 88888.00 | 0.27 | 0.67 |
| 16 | JJ | 5. | 8. | 0.90 | 2.05 | 0.0 | 0.29 | 88888.00 | 88888.00 | 0.05 | 0.38 | 0.14 | 0.0 | 0.29 | 88888.00 |
| 17 | JJ | 5. | 15. | 0.33 | 2.44 | 0.0 | 0.44 | 88888.00 | 88888.00 | 0.06 | 0.78 | 0.11 | 0.06 | 0.67 | 88888.00 |
| 18 | JJ | 5. | 22. | 0.21 | 2.57 | 0.0 | 0.29 | 88888.00 | 88888.00 | 0.0 | 0.50 | 0.07 | 0.07 | 0.50 | 3.50 |
| 19 | JJ | 5. | 29. | 0.44 | 2.63 | 0.0 | 0.38 | 88888.00 | 88888.00 | 0.0 | 1.00 | 0.06 | 0.0 | 0.69 | 1.88 |
| 20 | JJ | 6. | 6. | 2.11 | 2.84 | 0.0 | 0.32 | 88888.00 | 88888.00 | 0.05 | 0.11 | 0.58 | 0.0 | 0.53 | 1.26 |
| 21 | JJ | 6. | 13. | 0.57 | 1.57 | 0.0 | 0.29 | 88888.00 | 88888.00 | 0.0 | 0.64 | 0.0 | 0.0 | 0.57 | 1.21 |
| 22 | JJ | 6. | 20. | 0.40 | 1.93 | 0.0 | 0.40 | 88888.00 | 88888.00 | 0.07 | 0.87 | 0.0 | 0.0 | 0.87 | 1.73 |
| 23 | JJ | 6. | 27. | 0.55 | 2.64 | 0.0 | 0.24 | 88888.00 | 88888.00 | 0.18 | 0.48 | 0.0 | 0.0 | 0.33 | 0.94 |
| 24 | JJ | 7. | 3. | 0.64 | 2.50 | 0.0 | 0.07 | 88888.00 | 88888.00 | 0.07 | 0.50 | 0.21 | 0.0 | 0.43 | 1.36 |
| 25 | JJ | 7. | 10. | 0.65 | 2.18 | 0.0 | 0.18 | 88888.00 | 88888.00 | 0.12 | 0.53 | 0.18 | 0.0 | 0.53 | 1.47 |
| 26 | JJ | 7. | 17. | 0.40 | 1.30 | 0.0 | 0.40 | 88888.00 | 88888.00 | 0.0 | 0.50 | 0.0 | 0.0 | 0.50 | 1.10 |
| 27 | JJ | 7. | 24. | 0.14 | 2.14 | 0.0 | 0.19 | 88888.00 | 88888.00 | 0.0 | 0.05 | 1.10 | 0.0 | 1.00 | 88888.00 |
| 28 | JJ | 7. | 31. | 0.83 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 0.93 | 0.86 | 0.0 | 1.00 | 88888.00 |
| 29 | JJ | 8. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 30 | JJ | 8. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 31 | JJ | 8. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 32 | JJ | 8. | 28. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 33 | JJ | 9. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 34 | JJ | 9. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 35 | JJ | 9. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE KK

| CASE-N | CH | MONTH | WEEK | NOR05 | NOR06 | NOR07 | NOR08 | RNR | CNR | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | KK | 1. | 26. | 1.25 | 13.06 | 0.0 | 0.0 | 88888.00 | 88888.00 | 0.0 | 0.94 | 0.19 | 0.0 | 0.56 | 1.75 |
| 2 | KK | 2. | 2. | 1.50 | 11.25 | 0.0 | 0.0 | 88888.00 | 88888.00 | 0.0 | 1.81 | 0.13 | 0.0 | 0.94 | 3.00 |
| 3 | KK | 2. | 9. | 2.00 | 8.38 | 0.0 | 0.31 | 88888.00 | 88888.00 | 0.31 | 2.00 | 0.13 | 0.06 | 0.88 | 3.25 |
| 4 | KK | 2. | 16. | 3.75 | 6.75 | 0.0 | 0.63 | 88888.00 | 88888.00 | 0.31 | 0.75 | 0.38 | 0.0 | 0.75 | 3.00 |
| 5 | KK | 2. | 23. | 2.44 | 4.44 | 0.06 | 0.38 | 88888.00 | 88888.00 | 0.0 | 0.81 | 0.06 | 0.0 | 0.50 | 1.44 |
| 6 | KK | 2. | 30. | 1.56 | 10.69 | 0.0 | 0.44 | 88888.00 | 88888.00 | 0.06 | 1.69 | 0.44 | 0.0 | 0.75 | 3.81 |
| 7 | KK | 3. | 6. | 1.38 | 4.63 | 0.06 | 1.13 | 88888.00 | 88888.00 | 0.19 | 0.19 | 0.06 | 0.0 | 0.25 | 0.50 |
| 8 | KK | 3. | 13. | 3.53 | 19.27 | 0.0 | 0.47 | 5.77 | 2.40 | 0.07 | 1.33 | 0.27 | 0.0 | 0.67 | 2.40 |
| 9 | KK | 3. | 20. | 0.59 | 5.35 | 0.0 | 0.59 | 6.54 | 88888.00 | 0.06 | 0.71 | 0.24 | 0.0 | 0.76 | 1.94 |
| 10 | KK | 3. | 27. | 2.38 | 4.88 | 0.25 | 0.75 | 5.93 | 88888.00 | 0.19 | 1.00 | 0.25 | 88888.00 | 0.88 | 2.88 |
| 11 | KK | 4. | 4. | 0.75 | 7.25 | 0.0 | 0.88 | 8.00 | 88888.00 | 0.25 | 0.63 | 0.0 | 0.0 | 0.38 | 1.25 |
| 12 | KK | 4. | 11. | 1.06 | 3.81 | 0.0 | 0.81 | 6.67 | 88888.00 | 0.25 | 2.31 | 0.13 | 0.0 | 0.88 | 3.94 |
| 13 | KK | 4. | 18. | 2.69 | 0.44 | 0.0 | 0.94 | 4.85 | 88888.00 | 0.50 | 0.38 | 0.25 | 0.0 | 0.56 | 1.13 |
| 14 | KK | 4. | 25. | 1.64 | 3.29 | 0.0 | 0.29 | 5.00 | 88888.00 | 0.07 | 0.86 | 0.21 | 0.07 | 0.64 | 2.21 |
| 15 | KK | 5. | 1. | 2.38 | 8.56 | 0.0 | 0.88 | 8.89 | 88888.00 | 0.38 | 0.44 | 0.13 | 88888.00 | 0.38 | 1.00 |
| 16 | KK | 5. | 8. | 1.94 | 1.44 | 0.0 | 0.81 | 3.72 | 0.82 | 0.0 | 0.31 | 0.19 | 0.0 | 0.44 | 1.00 |
| 17 | KK | 5. | 15. | 0.88 | 3.25 | 0.0 | 0.19 | 5.93 | 0.33 | 0.0 | 0.50 | 0.19 | 0.13 | 0.56 | 88888.00 |
| 18 | KK | 5. | 22. | 1.23 | 4.31 | 0.0 | 0.62 | 88888.00 | 88888.00 | 0.15 | 0.31 | 0.23 | 0.15 | 0.69 | 1.38 |
| 19 | KK | 5. | 29. | 0.80 | 15.80 | 0.0 | 0.50 | 5.88 | 88888.00 | 0.0 | 0.50 | 0.40 | 0.0 | 0.60 | 1.70 |
| 20 | KK | 6. | 6. | 1.95 | 7.00 | 0.0 | 0.53 | 3.73 | 88888.00 | 0.05 | 0.32 | 0.16 | 88888.00 | 0.47 | 0.84 |
| 21 | KK | 6. | 13. | 2.63 | 6.63 | 0.0 | 0.50 | 5.52 | 0.50 | 0.19 | 0.44 | 0.31 | 0.0 | 0.44 | 1.25 |
| 22 | KK | 6. | 20. | 1.13 | 6.38 | 0.0 | 0.25 | 88888.00 | 88888.00 | 0.25 | 0.31 | 0.13 | 88888.00 | 0.44 | 0.94 |
| 23 | KK | 6. | 27. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24 | KK | 7. | 3. | 1.64 | 7.08 | 0.0 | 0.52 | 88888.00 | 88888.00 | 0.0 | 1.40 | 0.20 | 0.24 | 0.84 | 3.20 |
| 25 | KK | 7. | 10. | 1.83 | 4.48 | 0.0 | 0.26 | 88888.00 | 88888.00 | 0.13 | 0.91 | 0.43 | 0.48 | 0.91 | 5.26 |
| 26 | KK | 7. | 17. | 1.69 | 4.88 | 0.0 | 0.38 | 2.50 | 88888.00 | 0.13 | 0.94 | 0.19 | 0.0 | 0.81 | 2.06 |
| 27 | KK | 7. | 24. | 0.94 | 3.88 | 0.0 | 0.44 | 4.00 | 88888.00 | 0.19 | 1.56 | 0.63 | 0.06 | 1.00 | 88888.00 |
| 28 | KK | 7. | 31. | 0.75 | 88888.00 | 88888.00 | 88888.00 | 4.00 | 0.12 | 88888.00 | 0.56 | 88888.00 | 88888.00 | 0.56 | 88888.00 |
| 29 | KK | 8. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 30 | KK | 8. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 31 | KK | 8. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 32 | KK | 8. | 28. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 33 | KK | 9. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 34 | KK | 9. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 35 | KK | 9. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE LL

| CASE-N | CH | MONTH | WEEK | NOR05 | NOR06 | NOR07 | NOR08 | RHR | CHR | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LL | 1. | 26. | 2.76 | 7.31 | 0.0 | 0.45 | 88888.00 | 88888.00 | 0.09 | 1.51 | 0.09 | 0.04 | 0.93 | 2.75 |
| 2 | LL | 2. | 2. | 1.41 | 5.78 | 0.0 | 0.45 | 88888.00 | 88888.00 | 0.24 | 0.14 | 0.0 | 0.0 | 0.98 | 2.53 |
| 3 | LL | 2. | 9. | 3.65 | 8.85 | 0.0 | 0.35 | 88888.00 | 88888.00 | 0.05 | 1.90 | 0.20 | 0.0 | 1.00 | 3.35 |
| 4 | LL | 2. | 16. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 5 | LL | 2. | 23. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 6 | LL | 2. | 30. | 1.89 | 2.71 | 0.0 | 0.39 | 88888.00 | 88888.00 | 0.25 | 2.04 | 0.25 | 0.07 | 0.96 | 3.71 |
| 7 | LL | 3. | 6. | 2.55 | 2.92 | 0.0 | 0.42 | 88888.00 | 88888.00 | 0.22 | 1.35 | 0.17 | 0.32 | 0.82 | 3.13 |
| 8 | LL | 3. | 13. | 4.40 | 7.26 | 0.0 | 0.66 | 88888.00 | 88888.00 | 0.66 | 1.17 | 0.40 | 0.0 | 0.83 | 3.97 |
| 9 | LL | 3. | 20. | 3.26 | 11.91 | 0.0 | 0.21 | 88888.00 | 88888.00 | 0.26 | 0.72 | 0.14 | 88888.00 | 0.53 | 1.49 |
| 10 | LL | 3. | 27. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11 | LL | 4. | 4. | 3.17 | 2.58 | 0.04 | 0.13 | 88888.00 | 88888.00 | 0.17 | 1.46 | 0.58 | 0.04 | 0.79 | 3.33 |
| 12 | LL | 4. | 11. | 2.33 | 2.33 | 0.04 | 0.08 | 88888.00 | 88888.00 | 0.04 | 1.17 | 0.21 | 0.0 | 0.75 | 1.75 |
| 13 | LL | 4. | 18. | 2.72 | 2.28 | 0.04 | 0.0 | 88888.00 | 88888.00 | 0.40 | 0.88 | 0.36 | 0.08 | 0.76 | 7.60 |
| 14 | LL | 4. | 25. | 3.44 | 0.70 | 0.19 | 0.15 | 88888.00 | 88888.00 | 0.15 | 0.96 | 0.07 | 0.11 | 0.56 | 1.89 |
| 15 | LL | 5. | 1. | 5.38 | 2.85 | 0.23 | 0.19 | 88888.00 | 88888.00 | 0.12 | 1.23 | 0.15 | 0.0 | 0.92 | 2.35 |
| 16 | LL | 5. | 8. | 2.11 | 2.56 | 0.19 | 0.22 | 88888.00 | 88888.00 | 0.15 | 1.44 | 0.41 | 0.04 | 0.85 | 3.96 |
| 17 | LL | 5. | 15. | 4.05 | 0.59 | 0.08 | 0.11 | 88888.00 | 88888.00 | 0.11 | 1.78 | 0.27 | 0.03 | 0.84 | 88888.00 |
| 18 | LL | 5. | 22. | 2.02 | 1.37 | 0.13 | 0.15 | 88888.00 | 88888.00 | 0.06 | 1.46 | 0.42 | 0.13 | 0.87 | 3.48 |
| 19 | LL | 5. | 29. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20 | LL | 6. | 6. | 4.05 | 2.16 | 0.22 | 0.22 | 88888.00 | 88888.00 | 0.16 | 1.32 | 0.22 | 0.08 | 0.81 | 2.00 |
| 21 | LL | 6. | 13. | 3.76 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 1.41 | 0.35 | 0.08 | 0.76 | 4.08 |
| 22 | LL | 6. | 20. | 3.03 | 1.17 | 0.08 | 0.27 | 88888.00 | 88888.00 | 0.25 | 0.91 | 0.22 | 0.04 | 0.69 | 2.03 |
| 23 | LL | 6. | 27. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24 | LL | 7. | 3. | 2.42 | 2.04 | 0.17 | 0.19 | 88888.00 | 88888.00 | 0.10 | 1.31 | 0.40 | 0.02 | 0.77 | 2.73 |
| 25 | LL | 7. | 10. | 3.89 | 0.16 | 0.57 | 0.34 | 88888.00 | 88888.00 | 0.11 | 1.30 | 0.16 | 88888.00 | 0.70 | 2.84 |
| 26 | LL | 7. | 17. | 3.43 | 2.13 | 0.67 | 0.73 | 88888.00 | 88888.00 | 0.17 | 1.63 | 0.43 | 0.0 | 0.93 | 3.20 |
| 27 | LL | 7. | 24. | 3.44 | 4.44 | 1.09 | 0.78 | 88888.00 | 88888.00 | 0.18 | 1.09 | 0.16 | 0.04 | 0.62 | 88888.00 |
| 28 | LL | 7. | 31. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 29 | LL | 8. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 30 | LL | 8. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 31 | LL | 8. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 32 | LL | 8. | 28. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 33 | LL | 9. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 34 | LL | 9. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 35 | LL | 9. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE HH

| CASE-N | CH | MONTH | WEEK | WOR05 | WOR06 | WOR07 | WOR08 | BHR | CHR | WOR09 | WOR10 | WOR11 | WOR12 | WOR13 | WOR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HH | 1. | 26. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 2 | HH | 2. | 2. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 3 | HH | 2. | 9. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 4 | HH | 2. | 16. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 5 | HH | 2. | 23. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88889.00 |
| 6 | HH | 2. | 30. | 4.07 | 18.93 | 0.0 | 0.21 | 2.09 | 88888.00 | 0.21 | 1.43 | 0.86 | 0.14 | 0.93 | 4.57 |
| 7 | HH | 3. | 6. | 4.00 | 26.21 | 0.0 | 0.21 | 1.84 | 0.79 | 0.14 | 1.07 | 1.21 | 0.0 | 0.86 | 5.71 |
| 8 | HH | 3. | 13. | 3.15 | 29.15 | 0.0 | 0.0 | 88888.00 | 88888.00 | 0.15 | 1.92 | 0.92 | 0.08 | 0.08 | 4.31 |
| 9 | HH | 3. | 20. | 2.14 | 20.64 | 0.0 | 0.14 | 2.86 | 0.42 | 0.14 | 1.14 | 0.14 | 88888.00 | 0.79 | 88888.00 |
| 10 | HH | 3. | 27. | 2.45 | 30.90 | 0.0 | 0.05 | 88888.00 | 88888.00 | 0.35 | 0.90 | 1.40 | 0.0 | 0.90 | 4.10 |
| 11 | HH | 4. | 4. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12 | HH | 4. | 11. | 2.85 | 14.70 | 0.0 | 0.0 | 2.82 | 0.67 | 0.05 | 0.60 | 0.65 | 0.0 | 0.75 | 2.35 |
| 13 | HH | 4. | 18. | 1.15 | 18.15 | 0.0 | 0.05 | 3.70 | 88888.00 | 0.20 | 0.85 | 0.15 | 88888.00 | 0.65 | 1.65 |
| 14 | HH | 4. | 25. | 2.75 | 18.65 | 0.0 | 0.20 | 4.00 | 88888.00 | 0.35 | 0.65 | 0.45 | 0.0 | 0.50 | 1.85 |
| 15 | HH | 5. | 1. | 1.65 | 14.55 | 0.0 | 0.15 | 4.55 | 0.83 | 0.30 | 1.00 | 0.50 | 0.10 | 0.80 | 2.65 |
| 16 | HH | 5. | 8. | 2.00 | 14.75 | 0.0 | 0.15 | 6.90 | 88888.00 | 0.70 | 1.05 | 0.40 | 0.05 | 0.65 | 2.40 |
| 17 | HH | 5. | 15. | 2.10 | 12.00 | 0.0 | 0.25 | 3.57 | 0.50 | 0.55 | 1.35 | 1.00 | 88888.00 | 1.50 | 5.75 |
| 18 | HH | 5. | 22. | 1.93 | 21.73 | 0.0 | 0.0 | 88888.00 | 88888.00 | 0.67 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 19 | HH | 5. | 29. | 4.00 | 23.53 | 0.0 | 0.20 | 88888.00 | 88888.00 | 1.07 | 1.27 | 0.27 | 0.0 | 0.73 | 2.47 |
| 20 | HH | 6. | 6. | 3.60 | 12.10 | 0.0 | 0.0 | 88888.00 | 88888.00 | 0.50 | 0.60 | 0.60 | 0.10 | 0.70 | 4.80 |
| 21 | HH | 6. | 13. | 4.30 | 18.50 | 0.10 | 0.10 | 88888.00 | 88888.00 | 0.70 | 1.10 | 0.80 | 88888.00 | 0.90 | 4.10 |
| 22 | HH | 6. | 20. | 2.90 | 12.50 | 0.0 | 0.20 | 2.33 | 0.33 | 0.50 | 1.00 | 0.50 | 0.0 | 0.80 | 2.40 |
| 23 | HH | 6. | 27. | 1.70 | 8.80 | 0.0 | 0.0 | 1.75 | 0.33 | 0.60 | 0.10 | 0.20 | 0.0 | 0.20 | 0.60 |
| 24 | HH | 7. | 3. | 3.50 | 11.50 | 0.0 | 0.20 | 1.67 | 0.25 | 0.90 | 0.80 | 0.60 | 0.10 | 0.90 | 3.10 |
| 25 | HH | 7. | 10. | 4.67 | 22.58 | 0.0 | 0.50 | 88888.00 | 88888.00 | 0.75 | 0.50 | 0.75 | 88888.00 | 0.75 | 2.00 |
| 26 | HH | 7. | 17. | 3.47 | 14.60 | 0.0 | 0.33 | 88888.00 | 88888.00 | 0.80 | 0.53 | 0.87 | 0.0 | 0.87 | 6.13 |
| 27 | HH | 7. | 24. | 3.00 | 16.73 | 0.0 | 0.13 | 88888.00 | 88888.00 | 0.73 | 0.33 | 0.33 | 0.0 | 0.53 | 1.33 |
| 28 | HH | 7. | 31. | 3.17 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 0.78 | 0.61 | 0.0 | 0.72 | 88888.00 |
| 29 | HH | 8. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 30 | HH | 8. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 31 | HH | 8. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 32 | HH | 8. | 28. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 33 | HH | 9. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 34 | HH | 9. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 35 | HH | 9. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE NN

| CASE-N | CH | MONTH | WEEK | NOR05 | NOR06 | NOR07 | NOR08 | RHR | CHR | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | NN | 1. | 26. | 2.82 | 16.18 | 0.0 | 0.64 | 88888.00 | 88888.00 | 1.00 | 2.18 | 0.0 | 0.18 | 0.73 | 4.18 |
| 2 | NN | 2. | 2. | 2.29 | 11.06 | 0.0 | 0.18 | 88888.00 | 88888.00 | 0.88 | 1.00 | 0.12 | 0.06 | 0.71 | 2.24 |
| 3 | NN | 2. | 9. | 1.91 | 7.83 | 0.0 | 0.04 | 88888.00 | 88888.00 | 0.22 | 0.57 | 0.30 | 0.0 | 0.48 | 1.91 |
| 4 | NN | 2. | 16. | 0.30 | 11.80 | 0.0 | 0.50 | 88888.00 | 88888.00 | 0.20 | 0.90 | 0.0 | 0.0 | 0.70 | 1.70 |
| 5 | NN | 2. | 23. | 1.14 | 22.64 | 0.0 | 0.21 | 88888.00 | 88888.00 | 0.21 | 0.93 | 0.14 | 0.0 | 0.57 | 1.86 |
| 6 | NN | 2. | 30. | 1.00 | 7.29 | 0.0 | 0.07 | 3.11 | 0.18 | 0.79 | 1.00 | 0.43 | 0.0 | 0.64 | 3.79 |
| 7 | NN | 3. | 6. | 1.86 | 28.57 | 0.0 | 0.29 | 1.35 | 0.10 | 1.14 | 1.29 | 0.43 | 0.0 | 0.71 | 2.86 |
| 8 | NN | 3. | 13. | 2.00 | 11.85 | 0.0 | 0.0 | 2.17 | 0.19 | 0.46 | 1.31 | 0.15 | 0.0 | 0.85 | 2.62 |
| 9 | NN | 3. | 20. | 1.33 | 16.92 | 0.0 | 0.58 | 1.88 | 88888.00 | 0.25 | 1.67 | 0.08 | 88888.00 | 0.75 | 2.67 |
| 10 | NN | 3. | 27. | 0.64 | 14.36 | 0.0 | 0.64 | 1.90 | 88888.00 | 0.45 | 0.73 | 0.55 | 0.0 | 0.73 | 2.27 |
| 11 | NN | 4. | 4. | 0.25 | 17.67 | 0.0 | 0.33 | 1.60 | 0.04 | 0.50 | 0.83 | 0.25 | 0.0 | 0.58 | 7.83 |
| 12 | NN | 4. | 11. | 1.30 | 19.20 | 0.0 | 0.80 | 1.43 | 0.22 | 0.20 | 0.90 | 0.30 | 0.10 | 0.70 | 2.20 |
| 13 | NN | 4. | 18. | 0.71 | 13.79 | 0.0 | 0.57 | 2.09 | 0.15 | 0.07 | 0.93 | 0.0 | 0.0 | 0.64 | 1.93 |
| 14 | NN | 4. | 25. | 2.00 | 40.00 | 0.0 | 0.71 | 1.13 | 0.08 | 1.14 | 1.71 | 0.57 | 0.0 | 0.71 | 3.43 |
| 15 | NN | 5. | 1. | 1.24 | 22.71 | 0.0 | 0.59 | 3.70 | 0.38 | 0.18 | 1.65 | 0.59 | 0.0 | 0.88 | 2.65 |
| 16 | NN | 5. | 8. | 2.45 | 1.66 | 0.0 | 0.79 | 88888.00 | 88888.00 | 0.48 | 0.07 | 0.52 | 0.03 | 0.41 | 1.34 |
| 17 | NN | 5. | 15. | 1.00 | 4.75 | 0.0 | 0.0 | 88888.00 | 88888.00 | 0.25 | 0.50 | 0.0 | 0.0 | 0.50 | 88888.00 |
| 18 | NN | 5. | 22. | 1.80 | 16.93 | 0.0 | 0.20 | 88888.00 | 88888.00 | 0.07 | 1.20 | 0.47 | 0.0 | 0.73 | 3.20 |
| 19 | NN | 5. | 29. | 1.80 | 16.60 | 0.0 | 0.0 | 88888.00 | 88888.00 | 0.0 | 0.80 | 0.60 | 0.0 | 0.80 | 3.00 |
| 20 | NN | 6. | 6. | 3.00 | 26.31 | 0.0 | 0.0 | 2.83 | 0.17 | 0.38 | 2.08 | 0.69 | 0.0 | 0.85 | 5.23 |
| 21 | NN | 6. | 13. | 1.83 | 17.83 | 0.0 | 0.0 | 1.50 | 0.05 | 0.50 | 0.67 | 88888.00 | 88888.00 | 0.67 | 1.33 |
| 22 | NN | 6. | 20. | 1.00 | 27.00 | 0.0 | 0.0 | 0.50 | 88888.00 | 0.50 | 0.0 | 0.0 | 0.0 | 0.0 | 88888.00 |
| 23 | NN | 6. | 27. | 3.00 | 8.83 | 0.0 | 0.0 | 88888.00 | 88888.00 | 0.33 | 2.00 | 0.33 | 88888.00 | 1.00 | 3.83 |
| 24 | NN | 7. | 3. | 1.91 | 13.45 | 0.0 | 0.09 | 2.24 | 0.20 | 0.36 | 1.27 | 1.27 | 0.09 | 0.91 | 8.09 |
| 25 | NN | 7. | 10. | 1.33 | 12.83 | 0.0 | 0.17 | 1.22 | 0.06 | 0.67 | 0.0 | 0.50 | 0.17 | 0.50 | 3.17 |
| 26 | NN | 7. | 17. | 2.25 | 15.50 | 0.0 | 0.13 | 1.43 | 0.08 | 0.38 | 1.50 | 0.25 | 0.13 | 0.63 | 2.63 |
| 27 | NN | 7. | 24. | 2.31 | 17.96 | 0.0 | 0.15 | 7.65 | 0.31 | 0.50 | 1.73 | 0.27 | 0.0 | 0.81 | 88888.00 |
| 28 | NN | 7. | 31. | 2.05 | 88888.00 | 88888.00 | 88888.00 | 5.24 | 0.33 | 88888.00 | 1.55 | 0.50 | 0.05 | 0.82 | 88888.00 |
| 29 | NN | 8. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 30 | NN | 8. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 31 | NN | 8. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 32 | NN | 8. | 28. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 33 | NN | 9. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 34 | NN | 9. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 35 | NN | 9. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE 00

| CASE-N | CH | MONTH | WEEK | NOR05 | NOR06 | NOR07 | NOR08 | BHR | CHR | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00 | 1. | 26. | 7.00 | 3.25 | 0.0 | 0.0 | 88888.00 | 88888.00 | 0.13 | 0.75 | 0.50 | 0.50 | 0.88 | 3.13 |
| 2 | 00 | 2. | 2. | 2.79 | 15.50 | 0.14 | 0.86 | 88888.00 | 88888.00 | 0.50 | 1.50 | 0.64 | 0.0 | 0.71 | 3.71 |
| 3 | 00 | 2. | 9. | 5.56 | 12.56 | 0.11 | 0.67 | 88888.00 | 88888.00 | 0.33 | 1.11 | 0.22 | 0.33 | 0.78 | 3.00 |
| 4 | 00 | 2. | 16. | 2.00 | 13.13 | 0.07 | 0.47 | 88888.00 | 88888.00 | 0.07 | 1.40 | 0.33 | 0.13 | 0.73 | 3.13 |
| 5 | 00 | 2. | 23. | 2.79 | 11.29 | 0.0 | 0.21 | 88888.00 | 88888.00 | 0.29 | 1.50 | 0.14 | 0.0 | 0.71 | 3.21 |
| 6 | 00 | 2. | 30. | 3.37 | 11.89 | 0.11 | 0.0 | 88888.00 | 88888.00 | 0.37 | 0.53 | 0.0 | 0.05 | 0.53 | 1.37 |
| 7 | 00 | 3. | 6. | 4.08 | 15.75 | 0.08 | 0.08 | 88888.00 | 88888.00 | 0.50 | 1.08 | 0.25 | 0.0 | 0.83 | 0.0 |
| 8 | 00 | 3. | 13. | 5.29 | 13.86 | 0.21 | 0.07 | 88888.00 | 88888.00 | 0.43 | 0.57 | 0.43 | 0.07 | 0.50 | 1.64 |
| 9 | 00 | 3. | 20. | 2.71 | 17.57 | 0.50 | 0.29 | 88888.00 | 88888.00 | 0.14 | 1.43 | 0.14 | 0.0 | 0.86 | 2.71 |
| 10 | 00 | 3. | 27. | 3.43 | 10.43 | 0.21 | 0.36 | 88888.00 | 88888.00 | 0.14 | 0.71 | 0.14 | 88888.00 | 0.64 | 1.64 |
| 11 | 00 | 4. | 4. | 2.63 | 30.38 | 0.25 | 0.25 | 88888.00 | 88888.00 | 1.00 | 0.38 | 0.13 | 88888.00 | 0.38 | 0.88 |
| 12 | 00 | 4. | 11. | 4.88 | 14.50 | 0.56 | 0.56 | 88888.00 | 88888.00 | 0.44 | 0.94 | 0.19 | 0.06 | 0.75 | 1.81 |
| 13 | 00 | 4. | 18. | 2.92 | 6.77 | 1.54 | 0.62 | 88888.00 | 88888.00 | 0.62 | 1.15 | 0.54 | 0.0 | 0.77 | 3.08 |
| 14 | 00 | 4. | 25. | 4.20 | 17.15 | 2.15 | 0.60 | 88888.00 | 88888.00 | 0.55 | 0.40 | 0.25 | 0.15 | 0.50 | 1.50 |
| 15 | 00 | 5. | 1. | 5.78 | 12.78 | 1.06 | 0.89 | 88888.00 | 88888.00 | 0.39 | 1.44 | 0.22 | 0.06 | 0.89 | 2.89 |
| 16 | 00 | 5. | 8. | 3.24 | 11.88 | 1.82 | 0.29 | 88888.00 | 88888.00 | 0.12 | 0.88 | 0.35 | 0.0 | 0.71 | 3.29 |
| 17 | 00 | 5. | 15. | 3.78 | 14.78 | 1.56 | 0.50 | 88888.00 | 88888.00 | 0.11 | 0.67 | 0.50 | 0.0 | 0.72 | 88888.00 |
| 18 | 00 | 5. | 22. | 4.07 | 9.40 | 0.40 | 0.47 | 88888.00 | 88888.00 | 0.93 | 0.27 | 0.47 | 0.0 | 0.40 | 1.33 |
| 19 | 00 | 5. | 29. | 2.90 | 19.70 | 0.20 | 0.70 | 88888.00 | 88888.00 | 0.30 | 0.70 | 0.60 | 0.0 | 0.80 | 13.00 |
| 20 | 00 | 6. | 6. | 4.60 | 33.80 | 0.60 | 1.00 | 88888.00 | 88888.00 | 0.60 | 1.00 | 0.20 | 0.0 | 0.80 | 2.00 |
| 21 | 00 | 6. | 13. | 3.50 | 16.00 | 0.0 | 1.00 | 88888.00 | 88888.00 | 0.0 | 88888.00 | 88888.00 | 88888.00 | 1.00 | 2.00 |
| 22 | 00 | 6. | 20. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 23 | 00 | 6. | 27. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24 | 00 | 7. | 3. | 7.20 | 17.00 | 0.20 | 1.10 | 88888.00 | 88888.00 | 0.50 | 0.60 | 0.50 | 0.10 | 0.70 | 2.20 |
| 25 | 00 | 7. | 10. | 3.50 | 13.50 | 0.20 | 0.50 | 88888.00 | 88888.00 | 0.10 | 0.60 | 0.50 | 0.20 | 0.80 | 2.60 |
| 26 | 00 | 7. | 17. | 4.50 | 17.40 | 0.60 | 0.70 | 88888.00 | 88888.00 | 0.30 | 1.10 | 0.60 | 0.0 | 0.80 | 2.40 |
| 27 | 00 | 7. | 24. | 3.73 | 14.73 | 0.64 | 1.00 | 88888.00 | 88888.00 | 0.18 | 0.55 | 0.18 | 0.0 | 0.45 | 88888.00 |
| 28 | 00 | 7. | 31. | 11.20 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 2.20 | 0.30 | 0.20 | 1.00 | 88888.00 |
| 29 | 00 | 8. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 30 | 00 | 8. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 31 | 00 | 8. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 32 | 00 | 8. | 28. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 33 | 00 | 9. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 34 | 00 | 9. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 35 | 00 | 9. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE PP

| CASE-N | CH | MONTH | WEEK | NOR05 | NOR06 | NOR07 | NOR08 | RHR | CHR | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PP | 1. | 26. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 2 | PP | 2. | 2. | 2.53 | 4.53 | 0.60 | 0.47 | 88888.00 | 88888.00 | 0.07 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 3 | PP | 2. | 9. | 2.13 | 4.33 | 0.27 | 0.53 | 88888.00 | 88888.00 | 0.07 | 3.00 | 0.20 | 0.27 | 1.40 | 5.60 |
| 4 | PP | 2. | 16. | 0.87 | 2.07 | 0.47 | 0.40 | 88888.00 | 88888.00 | 0.07 | 1.93 | 0.13 | 0.0 | 0.80 | 3.13 |
| 5 | PP | 2. | 23. | 1.80 | 5.07 | 1.00 | 0.93 | 88888.00 | 88888.00 | 0.0 | 0.47 | 0.07 | 0.0 | 0.33 | 2.40 |
| 6 | PP | 2. | 30. | 1.21 | 6.64 | 0.0 | 0.86 | 88888.00 | 88888.00 | 0.07 | 1.43 | 0.14 | 0.21 | 0.79 | 3.21 |
| 7 | PP | 3. | 6. | 1.29 | 4.64 | 0.43 | 1.29 | 2.80 | 88888.00 | 0.43 | 0.57 | 0.0 | 0.07 | 0.50 | 1.29 |
| 8 | PP | 3. | 13. | 2.07 | 4.50 | 0.21 | 1.00 | 2.09 | 88888.00 | 0.43 | 0.43 | 0.0 | 0.0 | 0.43 | 0.93 |
| 9 | PP | 3. | 20. | 1.57 | 5.43 | 0.14 | 1.64 | 3.78 | 88888.00 | 0.50 | 0.71 | 0.21 | 0.0 | 0.64 | 1.93 |
| 10 | PP | 3. | 27. | 1.20 | 4.00 | 0.0 | 0.73 | 3.06 | 88888.00 | 0.20 | 0.87 | 1.27 | 0.0 | 1.00 | 3.40 |
| 11 | PP | 4. | 4. | 1.53 | 3.93 | 0.07 | 1.13 | 4.69 | 88888.00 | 0.33 | 0.87 | 0.33 | 0.0 | 0.73 | 2.60 |
| 12 | PP | 4. | 11. | 2.93 | 5.40 | 0.27 | 0.87 | 1.92 | 88888.00 | 0.27 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 13 | PP | 4. | 18. | 1.33 | 2.93 | 1.87 | 1.13 | 3.26 | 88888.00 | 0.13 | 1.67 | 0.20 | 0.0 | 1.20 | 3.67 |
| 14 | PP | 4. | 25. | 1.40 | 0.40 | 1.93 | 1.27 | 3.95 | 88888.00 | 0.07 | 0.73 | 88888.00 | 88888.00 | 0.53 | 1.40 |
| 15 | PP | 5. | 1. | 2.47 | 5.53 | 0.87 | 0.73 | 4.05 | 88888.00 | 0.13 | 1.20 | 0.07 | 88888.00 | 0.73 | 2.27 |
| 16 | PP | 5. | 8. | 2.53 | 2.27 | 2.27 | 1.00 | 4.55 | 88888.00 | 0.20 | 1.27 | 0.20 | 0.07 | 0.73 | 2.67 |
| 17 | PP | 5. | 15. | 3.47 | 2.73 | 2.07 | 0.93 | 3.75 | 88888.00 | 0.47 | 0.73 | 0.47 | 0.0 | 0.67 | 88888.00 |
| 18 | PP | 5. | 22. | 1.40 | 4.27 | 0.53 | 0.73 | 3.41 | 88888.00 | 0.13 | 0.53 | 0.07 | 0.0 | 0.47 | 1.20 |
| 19 | PP | 5. | 29. | 2.53 | 3.60 | 0.27 | 0.73 | 2.17 | 88888.00 | 0.13 | 0.67 | 0.13 | 88888.00 | 0.67 | 1.47 |
| 20 | PP | 6. | 6. | 2.33 | 2.13 | 1.27 | 0.53 | 7.14 | 88888.00 | 0.13 | 0.47 | 0.20 | 0.0 | 0.40 | 1.27 |
| 21 | PP | 6. | 13. | 2.67 | 1.67 | 1.33 | 0.60 | 5.17 | 88888.00 | 0.27 | 0.93 | 0.07 | 0.0 | 0.67 | 2.07 |
| 22 | PP | 6. | 20. | 1.47 | 3.60 | 1.07 | 0.60 | 88888.00 | 88888.00 | 0.33 | 1.40 | 0.27 | 0.0 | 0.80 | 1.20 |
| 23 | PP | 6. | 27. | 1.13 | 3.40 | 0.0 | 0.67 | 6.52 | 88888.00 | 0.07 | 0.53 | 0.07 | 88888.00 | 0.40 | 1.00 |
| 24 | PP | 7. | 3. | 1.73 | 2.80 | 0.40 | 0.47 | 3.00 | 88888.00 | 0.20 | 0.60 | 0.13 | 0.0 | 0.60 | 1.60 |
| 25 | PP | 7. | 10. | 3.07 | 1.67 | 0.33 | 0.67 | 3.49 | 88888.00 | 0.67 | 0.27 | 0.13 | 0.13 | 0.47 | 2.33 |
| 26 | PP | 7. | 17. | 1.87 | 3.80 | 0.40 | 0.80 | 88888.00 | 88888.00 | 0.33 | 0.60 | 0.07 | 0.0 | 0.40 | 1.07 |
| 27 | PP | 7. | 24. | 3.00 | 4.73 | 1.00 | 0.73 | 5.00 | 88888.00 | 0.40 | 0.20 | 0.0 | 0.07 | 0.27 | 88888.00 |
| 28 | PP | 7. | 31. | 3.80 | 88888.00 | 88888.00 | 88888.00 | 6.00 | 1.09 | 88888.00 | 0.53 | 0.20 | 88888.00 | 0.53 | 88888.00 |
| 29 | PP | 8. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 30 | PP | 8. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 31 | PP | 8. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 32 | PP | 8. | 28. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 33 | PP | 9. | 7. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 34 | PP | 9. | 14. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |
| 35 | PP | 9. | 21. | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 | 88888.00 |

# APPENDIX D

## DATA CORRELLATIONS

OCR STUDY - PEARSON CORRELATION ON CLEARINGHOUSE DATA 01/29/78 PAGE 21

FILE CHDATA (CREATION DATE = 01/29/78) CCR CLEARINGHOUSE DATA
SUBFILE AA BB CC DD EE FF GG HH II JJ
KK LL MM NN OO PP

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 175 | 4.6720 | 2.3784 |
| VAR04 | 131 | 24.4374 | 20.3003 |
| NOR05 | 371 | 2.2773 | 1.5931 |
| NOR06 | 362 | 11.8288 | 9.0210 |
| NOR07 | 362 | 0.1787 | 0.6131 |
| NOR08 | 362 | 0.5027 | 0.5510 |
| NOR09 | 362 | 0.2711 | 0.2466 |
| NOR10 | 369 | 0.8759 | 0.5947 |
| NOR11 | 363 | 0.3037 | 0.3224 |
| NOR12 | 322 | 0.0518 | 0.1382 |
| NOR13 | 371 | 0.6343 | 0.2831 |
| NOR14 | 330 | 2.4076 | 1.6906 |

- - - - - - - - - - - - PEARSON CORRELATION COEFFICIENTS - - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | 0.2871 | 0.4821 | -0.0948 | -0.0675 | 0.2544 | 0.3588 | 0.2500 | 0.1526 | 0.4816 | 0.3425 |
| | ( 150) | ( 146) | ( 146) | ( 146) | ( 146) | ( 151) | ( 147) | ( 127) | ( 151) | ( 136) |
| | S=0.001 | S=0.001 | S=0.128 | S=0.209 | S=0.001 | S=0.001 | S=0.001 | S=0.043 | S=0.001 | S=0.001 |
| VAR04 | 0.3386 | 0.3486 | -0.0825 | 0.0418 | 0.3122 | 0.1840 | 0.0604 | -0.0507 | 0.1983 | 0.1820 |
| | ( 109) | ( 105) | ( 105) | ( 105) | ( 105) | ( 110) | ( 107) | ( 95) | ( 110) | ( 100) |
| | S=0.001 | S=0.001 | S=0.201 | S=0.336 | S=0.001 | S=0.027 | S=0.268 | S=0.313 | S=0.019 | S=0.035 |

(COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE AA

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 26 | 5.7808 | 2.0153 |
| VAR04 | 23 | 11.3565 | 9.2124 |
| NOR05 | 28 | 0.9850 | 0.5754 |
| NOR06 | 27 | 15.8746 | 8.3589 |
| NOR07 | 27 | 0.0066 | 0.0217 |
| NOR08 | 27 | 0.1568 | 0.1940 |
| NOR09 | 27 | 0.2563 | 0.1738 |
| NOR10 | 28 | 0.9709 | 0.4236 |
| NOR11 | 28 | 0.2958 | 0.2267 |
| NOR12 | 27 | 0.0480 | 0.0998 |
| NOR13 | 28 | 0.6703 | 0.2237 |
| NOR14 | 25 | 2.3599 | 1.1181 |

- - - - - - - - - - - - - P E A R S O N C O R R E L A T I O N C O E F F I C I E N T S - - - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | 0.2215 | 0.3593 | 0.3216 | 0.2933 | 0.4213 | 0.6847 | 0.1330 | 0.2229 | 0.7682 | 0.5466 |
| | ( 22) | ( 21) | ( 21) | ( 21) | ( 21) | ( 22) | ( 22) | ( 21) | ( 22) | ( 19) |
| | S=0.161 | S=0.055 | S=0.078 | S=0.098 | S=0.029 | S=0.001 | S=0.278 | S=0.166 | S=0.001 | S=0.008 |
| VAR04 | 0.0532 | 0.2471 | -0.0855 | 0.2793 | 0.6808 | 0.2781 | 0.0242 | -0.1643 | 0.2487 | 0.2217 |
| | ( 21) | ( 21) | ( 21) | ( 21) | ( 21) | ( 21) | ( 21) | ( 20) | ( 21) | ( 19) |
| | S=0.409 | S=0.140 | S=0.356 | S=0.110 | S=0.001 | S=0.111 | S=0.459 | S=0.244 | S=0.138 | S=0.181 |

(COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

FILE CHDATA (CREATION DATE = 01/29/78) OCH CLEARINGHOUSE DATA
SUBFILE BB

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 8 | 2.7125 | 0.5489 |
| VAR04 | 7 | 17.7143 | 10.5153 |
| NOR05 | 19 | 2.1005 | 0.9817 |
| NOR06 | 18 | 5.2116 | 2.0970 |
| NOR07 | 18 | 0.0019 | 0.0079 |
| NOR08 | 18 | 1.9629 | 0.4398 |
| NOR09 | 18 | 0.2494 | 0.1175 |
| NOR10 | 19 | 0.8755 | 0.3866 |
| NOR11 | 19 | 0.2163 | 0.1329 |
| NOR12 | 15 | 0.0184 | 0.0435 |
| NOR13 | 19 | 0.5993 | 0.1503 |
| NOR14 | 17 | 2.2983 | 0.9663 |

- - - - - - - - - - - - - PEARSON CORRELATION COEFFICIENTS - - - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | -0.1919 | 0.2487 | 99.0000 | 0.6278 | 0.5418 | -0.2964 | -0.7329 | 99.0000 | -0.7170 | 0.0596 |
| | ( 7) | ( 7) | ( 7) | ( 7) | ( 7) | ( 7) | ( 7) | ( 5) | ( 7) | ( 7) |
| | S=0.340 | S=0.295 | S=***** | S=0.066 | S=0.105 | S=0.259 | S=0.030 | S=***** | S=0.035 | S=0.449 |
| VAR04 | -0.4235 | -0.2039 | 99.0000 | -0.7335 | 0.1913 | -0.4184 | -0.2734 | 99.0000 | -0.3384 | -0.3277 |
| | ( 7) | ( 7) | ( 7) | ( 7) | ( 7) | ( 7) | ( 7) | ( 5) | ( 7) | ( 7) |
| | S=0.172 | S=0.331 | S=***** | S=0.030 | S=0.341 | S=0.175 | S=0.277 | S=***** | S=0.229 | S=0.237 |

(COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

FILE CHDATA (CREATION DATE = 01/29/78) OCR CLEARINGHOUSE DATA
SUBFILE CC

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 3 | 2.6667 | 4.6188 |
| VAR04 | 3 | 8.0000 | 13.8564 |
| NOR05 | 27 | 3.8618 | 2.2852 |
| NOR06 | 27 | 21.1975 | 8.8527 |
| NOR07 | 27 | 0.0031 | 0.0160 |
| NOR08 | 27 | 0.3143 | 0.2581 |
| NOR09 | 27 | 0.3327 | 0.3258 |
| NOR10 | 25 | 1.2596 | 0.8012 |
| NOR11 | 25 | 0.4730 | 0.4182 |
| NOR12 | 23 | 0.1752 | 0.3885 |
| NOR13 | 25 | 0.8675 | 0.4601 |
| NOR14 | 22 | 3.5216 | 2.0596 |

- - - - - - - - - - - - - P E A R S O N C O R R E L A T I O N C O E F F I C I E N T S - - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | 1.0000 | 1.0000 | 99.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 99.0000 | 1.0000 | 1.0000 |
| | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 2) | ( 3) | ( 3) |
| | S=0.001 | S=0.001 | S=***** | S=0.001 | S=0.001 | S=0.001 | S=0.001 | S=***** | S=0.001 | S=0.001 |
| VAR04 | 1.0000 | 1.0000 | 99.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 99.0000 | 1.0000 | 1.0000 |
| | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 2) | ( 3) | ( 3) |
| | S=0.001 | S=0.001 | S=***** | S=0.001 | S=0.001 | S=0.001 | S=0.001 | S=***** | S=0.001 | S=0.001 |

(COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

FILE CHDATA (CREATION DATE = 01/29/78) OCR CLEARINGHOUSE DATA
SUBFILE DD

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 12 | 4.5417 | 3.4833 |
| VAR04 | 10 | 21.5000 | 21.8797 |
| NOR05 | 24 | 1.3940 | 1.0681 |
| NOR06 | 24 | 8.7002 | 6.3099 |
| NOR07 | 24 | 0.0028 | 0.0136 |
| NOR08 | 24 | 0.2856 | 0.1998 |
| NOR09 | 24 | 0.2542 | 0.2351 |
| NOR10 | 25 | 0.5671 | 0.4312 |
| NOR11 | 25 | 0.1524 | 0.1553 |
| NOR12 | 25 | 0.0296 | 0.0511 |
| NOR13 | 25 | 0.4675 | 0.2733 |
| NOR14 | 24 | 1.4531 | 0.9536 |

- - - - - - - - - - - - PEARSON CORRELATION COEFFICIENTS - - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | 0.7475 | 0.7382 | 0.2494 | 0.8403 | 0.5710 | 0.7747 | 0.7613 | 0.2917 | 0.8890 | 0.8716 |
| | ( 11) | ( 12) | ( 12) | ( 12) | ( 12) | ( 12) | ( 12) | ( 12) | ( 12) | ( 12) |
| | S=0.004 | S=0.003 | S=0.217 | S=0.001 | S=0.026 | S=0.002 | S=0.002 | S=0.179 | S=0.001 | S=0.001 |
| VAR04 | 0.5550 | 0.8099 | -0.2489 | 0.6862 | 0.6212 | 0.5564 | 0.4305 | 0.3774 | 0.6225 | 0.5404 |
| | ( 10) | ( 10) | ( 10) | ( 10) | ( 10) | ( 10) | ( 10) | ( 10) | ( 10) | ( 10) |
| | S=0.048 | S=0.002 | S=0.244 | S=0.014 | S=0.028 | S=0.047 | S=0.107 | S=0.141 | S=0.027 | S=0.051 |

(COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

FILE CHDATA (CREATION DATE = 01/29/78) CCR CLEARINGHOUSE DATA
SUBFILE EE

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 7 | 8.1714 | 1.8732 |
| VAR04 | 7 | 51.2857 | 38.9389 |
| NOR05 | 27 | 1.6479 | 0.5427 |
| NOR06 | 26 | 6.9008 | 2.6471 |
| NOR07 | 26 | 0.0 | 0.0 |
| NOR08 | 26 | 0.5083 | 0.2351 |
| NOR09 | 26 | 0.1706 | 0.1284 |
| NOR10 | 25 | 0.7225 | 0.4815 |
| NOR11 | 24 | 0.1349 | 0.1515 |
| NOR12 | 21 | 0.0072 | 0.0228 |
| NOR13 | 26 | 0.5772 | 0.3188 |
| NOR14 | 23 | 1.8169 | 1.2806 |

- - - - - - - - - - - - PEARSON CORRELATION COEFFICIENTS - - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | 0.0658 | -0.5289 | 99.0000 | -0.1099 | -0.0825 | 0.1716 | -0.7099 | 99.0000 | 0.0596 | -0.0259 |
| | ( 7) | ( 7) | ( 7) | ( 7) | ( 7) | ( 7) | ( 6) | ( 6) | ( 7) | ( 7) |
| | S=0.444 | S=0.111 | S=***** | S=0.407 | S=0.430 | S=0.356 | S=0.057 | S=***** | S=0.450 | S=0.478 |
| VAR04 | -0.0447 | -0.5647 | 99.0000 | -0.1429 | -0.5154 | -0.1017 | -0.5148 | 99.0000 | 0.0834 | -0.1652 |
| | ( 7) | ( 7) | ( 7) | ( 7) | ( 7) | ( 7) | ( 6) | ( 6) | ( 7) | ( 7) |
| | S=0.462 | S=0.093 | S=***** | S=0.380 | S=0.118 | S=0.414 | S=0.148 | S=***** | S=0.429 | S=0.362 |

(COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE FF

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 27 | 5.8185 | 1.4796 |
| VAR04 | 27 | 37.6296 | 17.6573 |
| NOR05 | 27 | 2.4371 | 0.7213 |
| NOR06 | 26 | 23.9700 | 4.5607 |
| NOR07 | 26 | 0.0 | 0.0 |
| NOR08 | 26 | 0.0213 | 0.0263 |
| NOR09 | 26 | 0.1689 | 0.1569 |
| NOR10 | 28 | 0.4593 | 0.2642 |
| NOR11 | 28 | 0.2088 | 0.1337 |
| NOR12 | 23 | 0.0191 | 0.0478 |
| NOR13 | 28 | 0.4376 | 0.1548 |
| NOR14 | 26 | 1.2367 | 0.5845 |

## - - - - - - - - - - - - PEARSON CORRELATION COEFFICIENTS - - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | 0.0072 | -0.1435 | 99.0000 | 0.0682 | -0.2890 | -0.0382 | -0.0492 | -0.2510 | -0.1073 | -0.0349 |
| | ( 20) | ( 19) | ( 19) | ( 19) | ( 19) | ( 21) | ( 21) | ( 16) | ( 21) | ( 19) |
| | S=0.488 | S=0.279 | S=***** | S=0.391 | S=0.115 | S=0.435 | S=0.416 | S=0.174 | S=0.322 | S=0.444 |
| VAR04 | 0.1225 | -0.0490 | 99.0000 | 0.3436 | -0.1326 | -0.2248 | -0.1074 | -0.2330 | -0.3093 | -0.2763 |
| | ( 20) | ( 19) | ( 19) | ( 19) | ( 19) | ( 21) | ( 21) | ( 16) | ( 21) | ( 19) |
| | S=0.303 | S=0.421 | S=***** | S=0.075 | S=0.294 | S=0.164 | S=0.322 | S=0.193 | S=0.086 | S=0.126 |

(COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE GG

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 0 | ********** | ********** |
| VAR04 | 0 | ********** | ********** |
| NOR05 | 2 | 1.0779 | 0.4959 |
| NOR06 | 3 | 2.1457 | 1.0830 |
| NOR07 | 3 | 0.0 | 0.0 |
| NOR08 | 3 | 0.0588 | 0.1019 |
| NOR09 | 3 | 0.0588 | 0.1019 |
| NOR10 | 4 | 1.7735 | 1.5712 |
| NOR11 | 4 | 1.1893 | 1.2118 |
| NOR12 | 1 | 0.0 | ********** |
| NOR13 | 4 | 0.8583 | 0.1639 |
| NOR14 | 3 | 4.8796 | 2.8700 |

- - - - - - - - - - - - PEARSON CORRELATION COEFFICIENTS - - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 |
| | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) |
| | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** |
| VAR04 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 |
| | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) |
| | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** |

(COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE HH

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 2 | 1.5500 | 2.1920 |
| VAR04 | 2 | 3.0000 | 4.2426 |
| NOR05 | 9 | 3.9812 | 1.7372 |
| NOR06 | 8 | 11.7845 | 7.1862 |
| NOR07 | 8 | 3.2846 | 1.5442 |
| NOR08 | 8 | 1.9161 | 0.9333 |
| NOR09 | 8 | 0.1072 | 0.1435 |
| NOR10 | 9 | 0.5809 | 0.3596 |
| NOR11 | 9 | 0.2526 | 0.1984 |
| NOR12 | 9 | 0.0444 | 0.1333 |
| NOR13 | 9 | 0.5382 | 0.2416 |
| NOR14 | 7 | 2.1056 | 1.4013 |

- - - - - - - - - - - - - P E A R S O N C O R R E L A T I O N C O E F F I C I E N T S - - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 99.0000 | 1.0000 | 1.0000 |
| | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) |
| | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** |
| VAR04 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 99.0000 | 1.0000 | 1.0000 |
| | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) |
| | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** |

(COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE II

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 5 | 3.2600 | 2.0045 |
| VAR04 | 3 | 22.6667 | 19.7315 |
| NOR05 | 26 | 3.1950 | 1.7455 |
| NOR06 | 27 | 17.1746 | 8.2609 |
| NOR07 | 27 | 0.0571 | 0.0798 |
| NOR08 | 27 | 0.9249 | 0.3694 |
| NOR09 | 27 | 0.4947 | 0.2740 |
| NOR10 | 27 | 1.0913 | 0.7691 |
| NOR11 | 27 | 0.5258 | 0.4463 |
| NOR12 | 25 | 0.1118 | 0.1649 |
| NOR13 | 27 | 0.6953 | 0.2745 |
| NOR14 | 24 | 3.7498 | 2.0805 |

## - - - - - - - - - - PEARSON CORRELATION COEFFICIENTS - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | 0.5540 | 0.5540 | 0.7042 | 0.6546 | 0.8232 | 0.7302 | 0.6425 | 0.4853 | 0.7458 | 0.6574 |
| | ( 5) | ( 5) | ( 5) | ( 5) | ( 5) | ( 5) | ( 5) | ( 5) | ( 5) | ( 5) |
| | S=0.166 | S=0.166 | S=0.092 | S=0.115 | S=0.043 | S=0.081 | S=0.121 | S=0.204 | S=0.074 | S=0.110 |
| VAR04 | 0.9508 | 0.9959 | 0.9961 | 0.9446 | 0.9999 | 0.9659 | 0.9767 | 0.5852 | 0.9746 | 0.7584 |
| | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) |
| | S=0.100 | S=0.029 | S=0.028 | S=0.106 | S=0.005 | S=0.083 | S=0.069 | S=0.301 | S=0.072 | S=0.226 |

(COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE JJ

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 0 | ********** | ********** |
| VAR04 | 0 | ********** | ********** |
| NOR05 | 23 | 0.6453 | 0.4821 |
| NOR06 | 23 | 2.8848 | 1.3127 |
| NOR07 | 23 | 0.0026 | 0.0123 |
| NOR08 | 23 | 0.3245 | 0.1517 |
| NOR09 | 23 | 0.1369 | 0.1464 |
| NOR10 | 24 | 0.5386 | 0.2754 |
| NOR11 | 22 | 0.2209 | 0.3222 |
| NOR12 | 20 | 0.0093 | 0.0229 |
| NOR13 | 24 | 0.5406 | 0.2278 |
| NOR14 | 20 | 1.4607 | 0.9615 |

- - - - - - - - - - - - P E A R S O N C O R R E L A T I O N C O E F F I C I E N T S - - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 |
| | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) |
| | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** |
| VAR04 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 |
| | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) | ( 0) |
| | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** |

(COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE KK

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 17 | 3.0176 | 1.4531 |
| VAR04 | 6 | 8.7500 | 5.6369 |
| NOR05 | 28 | 1.6525 | 0.8680 |
| NOR06 | 27 | 6.5605 | 4.4048 |
| NOR07 | 27 | 0.0139 | 0.0500 |
| NOR08 | 27 | 0.4982 | 0.2940 |
| NOR09 | 27 | 0.1378 | 0.1355 |
| NOR10 | 28 | 0.8534 | 0.5922 |
| NOR11 | 27 | 0.2181 | 0.1423 |
| NOR12 | 23 | 0.0519 | 0.1121 |
| NOR13 | 28 | 0.6261 | 0.2329 |
| NOR14 | 25 | 2.0452 | 1.2427 |

- - - - - - - - - - P E A R S O N C O R R E L A T I O N C O E F F I C I E N T S - - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | 0.2673 | -0.1107 | -0.0462 | 0.1122 | -0.0047 | 0.1231 | 0.2781 | 0.0507 | 0.4612 | 0.1295 |
| | ( 17) | ( 16) | ( 16) | ( 16) | ( 16) | ( 17) | ( 16) | ( 13) | ( 17) | ( 14) |
| | S=0.150 | S=0.342 | S=0.432 | S=0.340 | S=0.493 | S=0.319 | S=0.149 | S=0.435 | S=0.031 | S=0.330 |
| VAR04 | 0.3440 | -0.0611 | 99.0000 | 0.5358 | 0.5328 | 0.0287 | 0.7476 | 0.2839 | 0.5060 | 0.2811 |
| | ( 6) | ( 5) | ( 5) | ( 5) | ( 5) | ( 6) | ( 5) | ( 5) | ( 6) | ( 4) |
| | S=0.252 | S=0.461 | S=***** | S=0.176 | S=0.178 | S=0.478 | S=0.073 | S=0.322 | S=0.153 | S=0.359 |

(COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE LL

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 3 | 0.0 | 0.0 |
| VAR04 | 3 | 0.0 | 0.0 |
| NOR05 | 25 | 2.7669 | 1.3632 |
| NOR06 | 24 | 3.0879 | 3.0633 |
| NOR07 | 24 | 0.1552 | 0.2643 |
| NOR08 | 24 | 0.2708 | 0.2248 |
| NOR09 | 24 | 0.1638 | 0.1429 |
| NOR10 | 25 | 1.1275 | 0.5739 |
| NOR11 | 25 | 0.2267 | 0.1593 |
| NOR12 | 23 | 0.0492 | 0.0721 |
| NOR13 | 25 | 0.7073 | 0.2925 |
| NOR14 | 23 | 2.7028 | 1.6243 |

## - - - - - - - - - - - - PEARSON CORRELATION COEFFICIENTS - - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 |
| | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) |
| | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** |
| VAR04 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 |
| | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) | ( 3) |
| | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** |

(COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

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173

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FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE NM

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 13 | 5.0462 | 1.9645 |
| VAR04 | 9 | 17.9556 | 9.1961 |
| NOR05 | 23 | 2.8066 | 1.1211 |
| NOR06 | 22 | 17.3283 | 6.9725 |
| NOR07 | 22 | 0.0045 | 0.0213 |
| NOR08 | 22 | 0.1404 | 0.1273 |
| NOR09 | 22 | 0.4714 | 0.2988 |
| NOR10 | 22 | 0.8626 | 0.4439 |
| NOR11 | 22 | 0.6007 | 0.3573 |
| NOR12 | 17 | 0.0335 | 0.0498 |
| NOR13 | 22 | 0.7047 | 0.3162 |
| NOR14 | 20 | 3.1138 | 1.7407 |

- - - - - - - - - - - - P E A R S O N C O R R E L A T I O N C O E F F I C I E N T S - - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | 0.7707 | 0.6926 | 99.0000 | 0.3009 | 0.0532 | 0.4330 | 0.6634 | 0.1691 | 0.5478 | 0.6127 |
| | ( 13) | ( 13) | ( 13) | ( 13) | ( 13) | ( 13) | ( 13) | ( 10) | ( 13) | ( 12) |
| | S=0.001 | S=0.004 | S=***** | S=0.159 | S=0.431 | S=0.070 | S=0.007 | S=0.320 | S=0.026 | S=0.017 |
| VAR04 | 0.7967 | 0.5211 | 99.0000 | 0.4232 | 0.4876 | 0.4965 | 0.4053 | 0.2674 | 0.5922 | 0.4988 |
| | ( 9) | ( 9) | ( 9) | ( 9) | ( 9) | ( 9) | ( 9) | ( 7) | ( 9) | ( 8) |
| | S=0.005 | S=0.075 | S=***** | S=0.128 | S=0.092 | S=0.087 | S=0.140 | S=0.281 | S=0.046 | S=0.106 |

(COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE NN

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 25 | 5.4760 | 1.4134 |
| VAR04 | 22 | 36.3636 | 12.8194 |
| NOR05 | 28 | 1.6615 | 0.7507 |
| NOR06 | 27 | 16.3524 | 8.0371 |
| NOR07 | 27 | 0.0 | 0.0 |
| NOR08 | 27 | 0.2846 | 0.2813 |
| NOR09 | 27 | 0.4490 | 0.3122 |
| NOR10 | 28 | 1.1053 | 0.5957 |
| NOR11 | 27 | 0.3450 | 0.2858 |
| NOR12 | 25 | 0.0321 | 0.0561 |
| NOR13 | 28 | 0.6788 | 0.1908 |
| NOR14 | 24 | 3.1645 | 1.7409 |

- - - - - - - - - - - - P E A R S O N C O R R E L A T I O N C O E F F I C I E N T S - - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | -0.4618 | -0.0220 | 99.0000 | 0.6221 | -0.1609 | -0.0218 | -0.2663 | 0.0466 | 0.0639 | 0.1007 |
| | ( 18) | ( 17) | ( 17) | ( 17) | ( 17) | ( 18) | ( 17) | ( 16) | ( 18) | ( 15) |
| | S=0.027 | S=0.467 | S=***** | S=0.004 | S=0.269 | S=0.466 | S=0.151 | S=0.432 | S=0.401 | S=0.360 |
| VAR04 | 0.3871 | 0.4065 | 99.0000 | -0.3402 | 0.6203 | 0.2223 | -0.0959 | -0.1647 | -0.2269 | 0.1708 |
| | ( 15) | ( 14) | ( 14) | ( 14) | ( 14) | ( 15) | ( 14) | ( 14) | ( 15) | ( 13) |
| | S=0.077 | S=0.075 | S=***** | S=0.117 | S=0.009 | S=0.213 | S=0.372 | S=0.287 | S=0.208 | S=0.289 |

(COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE 00

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 2 | 0.0 | 0.0 |
| VAR04 | 2 | 0.0 | 0.0 |
| NOR05 | 28 | 3.9863 | 2.1648 |
| NOR06 | 27 | 13.8884 | 7.2348 |
| NOR07 | 27 | 0.4893 | 0.6066 |
| NOR08 | 27 | 0.4881 | 0.3471 |
| NOR09 | 27 | 0.3344 | 0.2637 |
| NOR10 | 27 | 0.8688 | 0.5059 |
| NOR11 | 27 | 0.3085 | 0.1950 |
| NOR12 | 25 | 0.0744 | 0.1238 |
| NOR13 | 28 | 0.6657 | 0.2480 |
| NOR14 | 25 | 2.5014 | 2.4326 |

- - - - - - - - - - - - P E A R S O N C O R R E L A T I O N C O E F F I C I E N T S - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 |
| | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) |
| | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** |
| VAR04 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 |
| | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) | ( 2) |
| | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** |

( COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

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FILE CHDATA (CREATION DATE = 01/25/78) OCR CLEARINGHOUSE DATA
SUBFILE PP

| VARIABLE | CASES | MEAN | STD DEV |
|---|---|---|---|
| VAR02 | 25 | 3.8240 | 1.5859 |
| VAR04 | 7 | 16.2857 | 6.1837 |
| NOR05 | 27 | 2.0497 | 0.7787 |
| NOR06 | 26 | 3.6954 | 1.4521 |
| NOR07 | 26 | 0.7328 | 0.6842 |
| NOR08 | 26 | 0.8251 | 0.2936 |
| NOR09 | 26 | 0.2344 | 0.1700 |
| NOR10 | 25 | 0.9044 | 0.6174 |
| NOR11 | 24 | 0.1927 | 0.2535 |
| NOR12 | 20 | 0.0410 | 0.0779 |
| NOR13 | 25 | 0.6463 | 0.2642 |
| NOR14 | 22 | 2.1587 | 1.1369 |

- - - - - - - - - - - - - P E A R S O N C O R R E L A T I O N C O E F F I C I E N T S - - - - - - - - - - - -

| | NOR05 | NOR06 | NOR07 | NOR08 | NOR09 | NOR10 | NOR11 | NOR12 | NOR13 | NOR14 |
|---|---|---|---|---|---|---|---|---|---|---|
| VAR02 | -0.0389 | 0.3570 | -0.3373 | 0.0755 | 0.1099 | -0.0004 | 0.0575 | -0.0441 | 0.2104 | -0.0663 |
| | ( 20) | ( 19) | ( 19) | ( 19) | ( 19) | ( 19) | ( 18) | ( 14) | ( 19) | ( 16) |
| | S=0.435 | S=0.067 | S=0.079 | S=0.379 | S=0.327 | S=0.499 | S=0.410 | S=0.441 | S=0.194 | S=0.403 |
| VAR04 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 | 99.0000 |
| | ( 1) | ( 0) | ( 0) | ( 0) | ( 0) | ( 1) | ( 1) | ( 0) | ( 1) | ( 0) |
| | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** | S=***** |

( COEFFICIENT / (CASES) / SIGNIFICANCE) (A VALUE OF 99.0000 IS PRINTED IF A COEFFICIENT CANNOT BE COMPUTED)

# APPENDIX E

# INSTRUCTIONS FOR ASSEMBLING THE

# OCR FORMS SHIPPING CARTON

PROCESSING AND REFERENCE FACILITY
4833 RUGBY AVENUE, SUITE 303, BETHESDA, MARYLAND 20014 (301) 656-9723
*OPERATED FOR* THE NATIONAL INSTITUTE OF EDUCATION *by* Operations Research, Inc., Information Systems Division

June 29, 1976

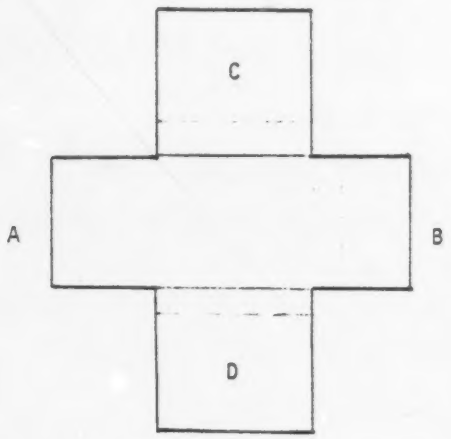
TO: All ERIC Clearinghouses

FROM: Patrick D. Brown, Assistant Director, PB
Computer and Management Information Systems
ERIC Processing and Reference Facility

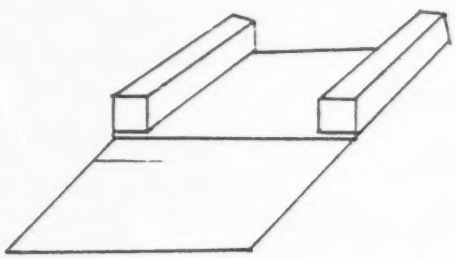
SUBJECT: Assembly Instructions for OCR Forms Shipping Container

Recently, each of the clearinghouses was sent a supply of cardboard shipping containers to be used for the transmittal of OCR resume forms from the clearinghouses to the Facility. This carton has been specially designed for the containment and shipping of the ERIC OCR Resume Forms. When used in conjunction with the supplied cardboard inserts, this shipping container will adequately protect the forms from damage during transit and handling.

To assemble the shipping carton, the flaps marked A and B in Example 1 are to be folded inward at the four creases on each flap to form a square as illustrated in Example 2. Next, fold the flaps marked C and D at the two creases on each flap to form the other two sides and the top of the carton.




EXAMPLE 1

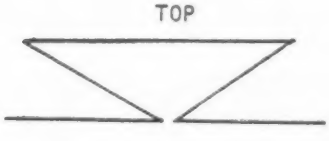


EXAMPLE 2

After assembling the basic container, and before placing the OCR forms in the container, place the 11" square cardboard insert in the container. This insert will prevent the OCR forms from slipping underneath the folded edges of the container. Next, place the OCR forms squarely in the container taking special care that none of the edges of the OCR forms are extended as this will result in the forms being bent or damaged.

After placing the OCR forms in the container, the excess space between the OCR forms and the top of the container can be displaced by either placing an 11" square insert on top of the OCR forms, if the maximum number of OCR forms (approximately 125) are being shipped, or by inserting one of the supplied cardboard springpads on top of the forms. The springpad is designed to firmly hold the forms in place and is to be used when the excess space betwen the OCR forms and the top of the box cannot be displaced by a single 11" square cardboard insert.

The following example illustrates what the cardboard springpad will look like when properly folded. This springpad will automatically adjust to fill all of the excess space in the container while securely holding the OCR forms in place.




FOLDED SPRINGPAD